Department of Public Works and Highways

ANNUAL REPORT
1987-88

Northwest Territories Public Works and Highways

92-01163/

Department of Public Works and Highways

ANNUAL REPORT
1987-88

Prepared by
Policy, Planning and Training Division

Northwest Territories Minister of Public Works and Highways

Mr. Daniel L. Norris,
Commissioner,
Government of the Northwest Territories,
Courthouse 6,
Yellowknife, N.W.T.
X1A 2L9

Dear Commissioner Norris:

I have the honour to submit our second Annual Report of the Government of the Northwest Territories Department of Public Works and Highways for the period April 1, 1987 to March 31, 1988.

Respectfully submitted,

Nellie J. Cournoyea,
Minister

Northwest Territories Public Works and Highways

The Honourable Nellie J. Cournoyea,
Minister,
Department of Public Works and Highways,
Government of the Northwest Territories,
Laing 6,
Yellowknife, Northwest Territories,
X1A 2L9

Madam Minister:

I have the honour to submit our second Annual Report of the Government of the Northwest Territories Department of Public Works and Highways for the period April 1, 1987 to March 31, 1988.

Respectfully submitted,

Larry Elkin,
Deputy Minister.

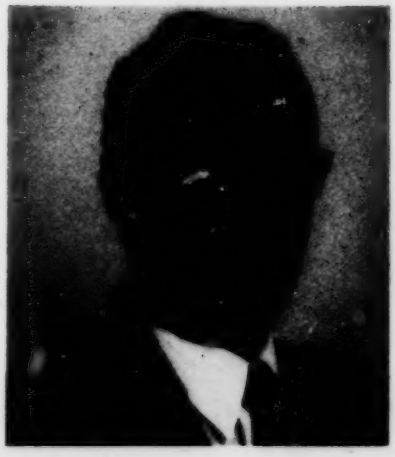


Table of Contents

DEPARTMENTAL OVERVIEW 1
Goals and Objectives 2
Figure 1: Departmental Organization Chart 3

REGIONAL STRUCTURE 4
Figure 2: The Northwest Territories Administrative Regions 4

HISTORICAL SUMMARY 5

DIVISIONAL DESCRIPTIONS: 7

DIRECTORATE:
Deputy Minister's Office 7
Figure 3: Departmental Privatization 7
Finance Division 8
Contracts and Capital Planning Division 8
Figure 4: Expenditures by Departmental Activity 8
Policy, Planning and Training Division 8
Figure 5: Capital Expenditures on Behalf of Other Departments 9
Figure 6: Contracts Report Summary 9
Figure 7: Personnel by Region and Activity 10
Energy Management Division 10

PROJECT MANAGEMENT:
Architectural Division 12
Figure 8: Architectural Division Projects with Expenditures Greater than $100,000 13
Engineering Division 14
Figure 9: Engineering Division Projects with Expenditures Greater than $100,000 14

OPERATIONS DIVISION:
Buildings and Works 15
Figure 10: Location of Buildings and Works Operations and Maintenance Personnel 15
Figure 11: Residual Heat Recovery Program 16
Figure 12: Energy Conservation Capital Program 17
Figure 13: Roof Retrofit Program 17
Vehicles and Equipment 17
Figure 14: Types of Vehicles 18
Accommodation Services 19
Figure 15: Accommodation Services Lease Summary 19

HIGHWAYS:
Transportation Planning Division 21
Figure 17: Northwest Territories Highway Data 21
Transportation Engineering Division 21
Figure 16: Northwest Territories Highways/Ferries Map 22
Highway Operations Division 23
Figure 18: Highway Operations Highlights 24
Marine Operations Division 25
Figure 19: Ferry Highlights 25

APPENDICES 27
Appendix A: 27
Construction, Maintenance and Service Contracts: 27
Headquarters 27
Fort Smith Region 30
Inuvik Region 37
Baffin Region 41
Keewatin Region 43
Kitikmeot Region 45

Appendix B: 47
Architectural and Engineering Contracts: 47
Headquarters 47
Fort Smith Region 47
Inuvik Region 48
Baffin Region 49
Keewatin Region 50
Kitikmeot Region 50

Appendix C: 51
Leases Awarded 51

Departmental Overview

INTRODUCTION

The Department of Public Works and Highways is responsible for the design, construction, acquisition and maintenance of all buildings, works and equipment required by Territorial Government departments in carrying out their programs and services; for the provision of property management services to the Government; for the design, reconstruction and maintenance of the highway system in the Northwest Territories; and highway regulatory enforcement through the operation of highway weigh scales.

The Department consists of a Directorate, four service Divisions and seven program Divisions. The Directorate is comprised of the Deputy Minister, two Assistant Deputy Ministers and the Directors of the three administrative services Divisions. The three Divisions that provide central service and administrative control to the entire Department are Policy, Planning and Training; Contracts and Capital Planning; and Finance. A fourth service division, Transportation Planning, was established in 1987 to provide services to the three expanding Highways Divisions. The seven program Divisions are Architecture, Engineering, Operations, Energy Management, Transportation Engineering, Highway Operations and Marine Operations. The magnitude of Divisional activities is indicated in Figure 4: Expenditures by Departmental Activity.

The various programs and services delivered by the Department of Public Works and Highways impact upon all communities in the Northwest Territories. As a service department, Public Works and Highways provides a broad range of services to other Government departments and agencies and to the general public. A prime responsibility for the Department is to resolve problems of, and respond to queries from, other Government departments. The Department also provides services to other governments such as performing maintenance tasks on behalf of Federal departments.

The capital program that Public Works and Highways carried out for all Territorial departments and on behalf of the Federal Government was approximately $103.8 million during 1987/88. The magnitude of work performed for client departments is detailed in Figure 5: 1987/88 Capital Expenditures on Behalf of Other Departments.

In carrying out its responsibilities, the Department relies on a staff with a wide range of technical expertise. Staff are located in Yellowknife Headquarters, five Regional offices and the Yellowknife District Office, and in virtually all of the 62 NWT communities. Highway maintenance operations are headquartered in Hay River, a central location for the Northwest Territories highway system.

One of the Department's operating principles states that the structure of the Department will be designed to allow programs and services to be delivered as close as practicable to the people being served. In accordance with this decentralization philosophy, property management and energy management programs were fully decentralized to the five Regional centres, while decentralization of project management responsibility continued.

The Department also carries out its mandate while ensuring that the Government's infrastructure is designed, constructed, operated and maintained according to standards of quality, energy efficiency and lifetime cost-effectiveness. In its provision of infrastructure, the Department also maintains principles of economy, standardization, reliability, simplicity, and an evolving technology appropriate for an arctic environment.

The Department has attained significant milestones during the past few years. A further step in the Government of the Northwest Territories (GNWT) continuous evolution towards fully responsible government was achieved in March 1983 when the Department commenced reporting to an elected Minister, who is a Member of both the Executive Council and the Legislative Assembly. Prior to that, the Department had reported to the Deputy Commissioner. In 1984, the Department of Public Works added "Highways" to its official name, in recognition of continuing program transfers from the Federal Government and the overall growth in highway program responsibility. As a result, in March 1987 the rapidly expanding Highways Division was reorganized into four separate Divisions.

DEPARTMENTAL PRIORITIES

Local Involvement, Economic Development and Privatization

Over the past several years, there has been a significant expansion and evolution in the responsibilities and approaches utilized by the Department in delivering buildings, works, highways and equipment programs. The Department of Public Works and Highways has increasingly become a department which has major employment creation and economic development goals within the Northwest Territories, in addition to its infrastructure design, construction and maintenance role. The maximum employment of northern and local residents and the maximum use of northern and local businesses in the delivery of the Department's programs and services has now become a major operating principle.

This evolution in emphasis from being solely a service department to becoming one with both major program and service delivery has occurred rapidly in the last five years, and has brought about significant change in the Department's approaches to carrying out its capital construction, infrastructure maintenance, operation and leasing programs. The Department has, therefore, become highly involved in developing new and innovative policy directions for the Government. Major examples of this are the Department's Expense and Revenue Leasing Policies and a Local and Northern Involvement Discussion Paper, which was tabled in the Legislative Assembly and distributed for comment to most construction and maintenance firms and to all communities in the Territories. Once feedback was received, a senior management committee was established to determine how to best implement this initiative. This Deputy Ministers' committee was chaired by Public Works and Highways and also consisted of Deputy Ministers from Education, Economic Development and Tourism, and the NWT Housing Corporation.

The Department of Public Works and Highways played a major role in developing the GNWT's Privatization Policy and continues to be a leading Department in identifying privatization opportunities. The Department has been actively involved in the efforts of the GNWT to achieve more responsible government, through direct negotiations with Ottawa for the transfer of Federal highway programs, and in assessing Federal assets and estimating capital, operations, maintenance and replacement requirements for infrastructure being transferred with other programs from the Federal Government to the GNWT.

To implement these new responsibilities , while still retaining the Department's traditional roles in support of GNWT departments, the Department of Public Works and Highways has established overall objectives that attempt to strike an appropriate balance between the traditional responsibilities of designing, constructing, maintaining and operating facilities as effectively and efficiently as possible, and the additional responsibilities in respect to employment and business development across the Northwest Territories. These objectives are stated below.

As an indication of the Department's continuing support in 1987/88 for the development of the North's economy, businesses and residents, 89% of 1232 construction, maintenance and service contracts were awarded to northern contractors. The value of these contracts was $57.0 million, which represents 80% of the $71.5 million in contracts awarded to all firms. This compares with the 1986/87 and 1985/86 totals of 82%, the 1984/85 total of 76% and the 1983/84 total of 66%.

A number of measures recently implemented by the Department are contributing to the achievement of this high level of local involvement. Regular reporting by contractors on the level of local and northern involvement planned for and actually utilized under their contracts is now required. A Departmental Directive established criteria to ensure that all tender advertisements are placed in appropriate northern publications to provide northern firms with a better opportunity to become aware of, and submit tenders for, upcoming Government construction and maintenance contracts. Another Departmental Directive requires contractors to house their crews in commercial accommodations whenever practical rather than establishing labour camps.

The Department's Directive governing the selection of architectural and engineering service firms provides preference to northern consulting firms. The Department believes this Directive has greatly encouraged the establishment of new northern consulting businesses. In 1987/88, 97% of the total dollar value of all engineering and architectural contracts were awarded to northern consultants.

Resulting from the Government of the Northwest Territories' Native Employment Policy, the Department has developed an Affirmative Action Program which details 27 plans to increase native employment within the Department.

In support of the Government of the Northwest Territories' Privatization Policy and again towards increasing local involvement, seven of fourteen highway maintenance beats are now contracted. As well, winter and ice road construction and maintenance contracts are now awarded for a three-year period to allow northern businesses greater economic security and potential for growth.

The recently approved Expense Leasing of Improved Real Property Policy requires that future staff housing needs, office space and group home requirements will be met by leasing space from the private sector.

Much work has been and remains to be accomplished to ensure the establishment and maintenance of an adequate infrastructure for all Northerners and their Government. The Department continues to do its utmost in this regard.

OVERALL GOALS AND OBJECTIVES OF THE DEPARTMENT

The Department carries out its programs within goals and objectives that are complementary to the Government of the Northwest Territories' priorities, and the programs of other departments. The overall goals and objectives of this Department are:

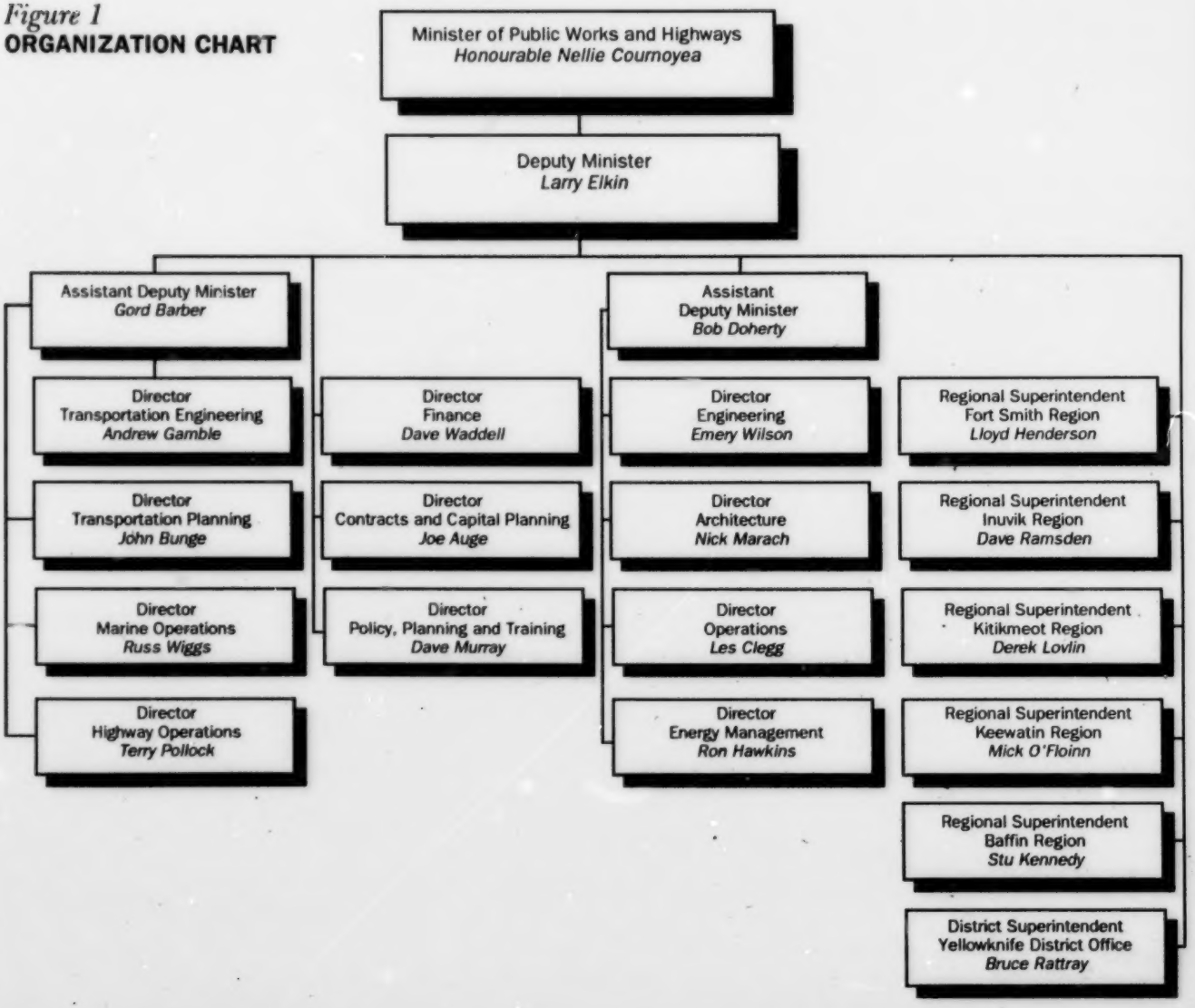
Goals

1. An infrastructure of buildings, works and equipment that is adequate to enable the Government of the Northwest Territories to deliver its programs and services to Northwest Territories residents.
2. An all-weather highway system in the Northwest Territories provided by the Government of the Northwest Territories which provides for the safe and convenient transportation of residents, tourists and goods.
3. The efficient and economical use of energy in the Northwest Territories.

Objectives

1. An infrastructure that is designed, constructed, leased, operated and maintained to quality standards and that incorporates lifetime cost and effectiveness.
2. Standardized system designs to ensure a consistent level of service and cost-effective design, construction, lease, operation and maintenance of facilities.
3. Maximum economic benefit to Northwest Territories residents and businesses from Government expenditures through their involvement in design, construction, lease, operation or maintenance of Government of the Northwest Territories buildings, works, equipment and highways, through privatization of Departmental programs and services, and by the implementation of programs to increase employment opportunities for designated target groups.
4. Reliable and sure inter-community travel on existing highways through the improvement of reconstruction and maintenance standards, implemented in a cost-effective manner.
5. The transfer of all remaining highways programs from the Federal Government consistent with the Government of the Northwest Territories' priority to assume greater provincial-type responsibilities.
6. A highway and winter road network that benefits isolated communities and facilitates community interaction and renewable and non-renewable resource development including tourism.
7. Efficient and economical use of energy by the Government of the Northwest Territories in its facilities and works.
8. Conservation of energy within the private sector and municipal governments through the provision of information, technical expertise and energy conservation programs.

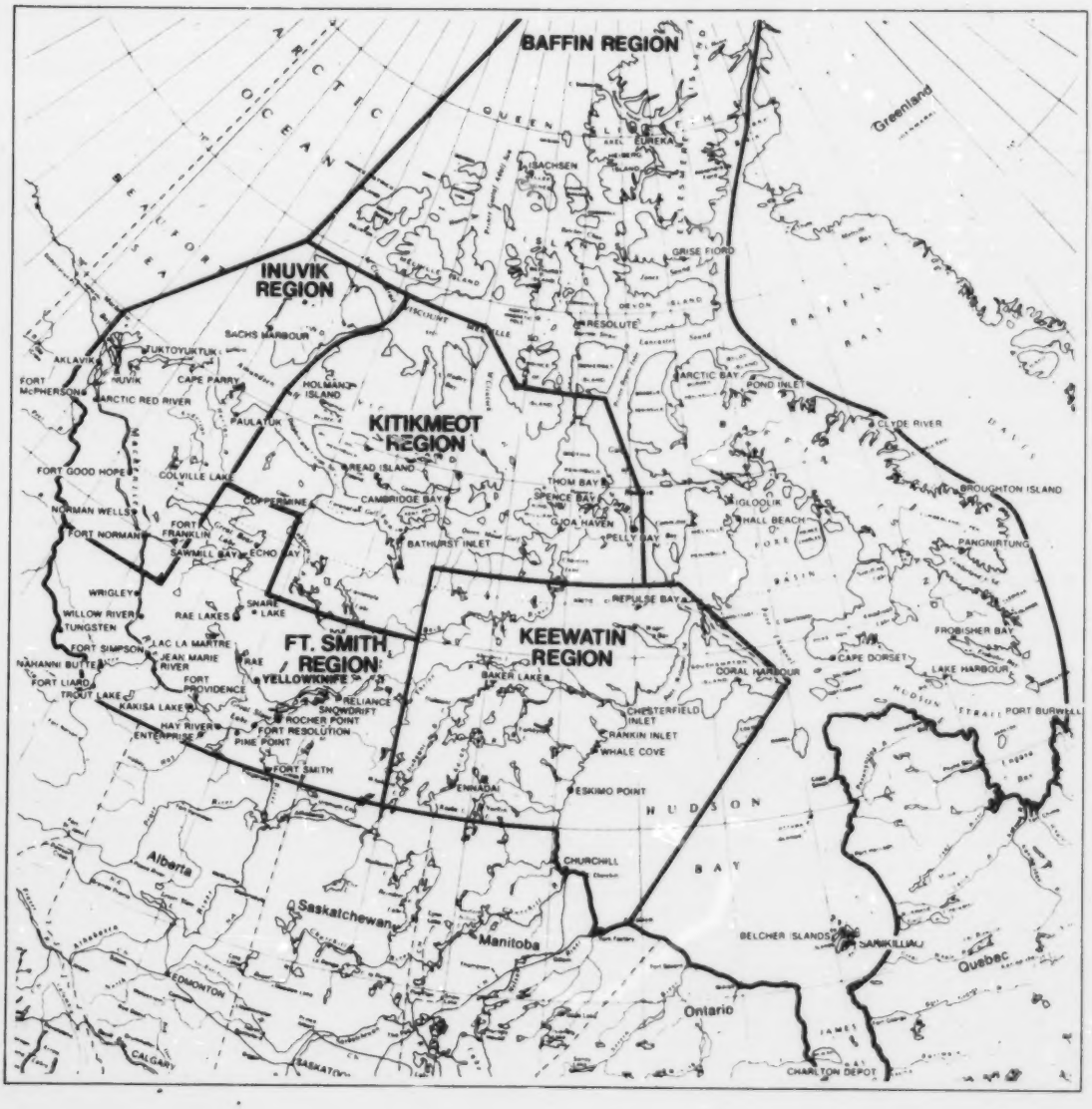
Figure 1
ORGANIZATION CHART



Regional Structure

All Government of the Northwest Territories Departments are headquartered in Yellowknife. In addition, the Territories is divided into five administrative Regions: Baffin, Keewatin, Kitikmeot, Inuvik and Fort Smith as shown in Figure 2. The Department of Public Works and Highways has a Regional Superintendent in each of the Regions who coordinates the Department's activities in the Region. There is also a District Superintendent in Yellowknife who performs a similar function as the Regional Superintendents.

Figure 2
THE NORTHWEST TERRITORIES ADMINISTRATIVE REGIONS



Historical Summary

Following is a brief historical summary of significant events surrounding the provision of public works facilities, programs and services in the NWT. Terminology of the period has been retained to maintain a historical flavour.

1953
- Northern Affairs was added to the Department of National Resources.

1957
- Construction on the Mackenzie Highway was begun.

1961
- The first permanent ferry, M.V. Johnny Berens, was placed into operation at Fort Providence.
- The Federal Government's Department of Public Works maintained responsibility for northern infrastructure.

1964
- Twenty-eight full-time resident employees were stationed in the Mackenzie District with Regional supervision supplied from District Architects offices, located in major southern cities.

1966
- The advisory Commission on the Development of Government in the Northwest Territories submitted its report recommending that a Territorial Government be established and that there be a department responsible for public works.

1967
- The Minister of Indian Affairs and Northern Development named Yellowknife as the capital of the Northwest Territories.
- The Territorial Public Service was established with three service departments and seven line departments, one of which was Public Works.

1968
- Department of Public Works assumed maintenance responsibility for the Mackenzie Highway System.
- The Department of Public Works' principal objective was to ensure a capability of assuming all engineering responsibilities in the Mackenzie area.

1969
- The Department of Public Works was redefined as a service department responsible for the provision and maintenance of the physical structures, installations and equipment required to meet the programs of the various Government departments and agencies.
- The Department of Public Works assumed responsibility for operations and maintenance for the Keewatin and Baffin Regions.

1970
- A leased tug and barge (the Northwest Territories' second ferry type service) was launched on the Liard River crossing of the highway extension to Fort Simpson.

1971
- The Department of Public Works assumed responsibility for construction in the Keewatin and Baffin Regions.
- The Highways Division assumed responsibility for the Eastern Arctic community roads program.

1972
- Design and Construction Divisions amalgamated into one Project Management Division.

1973
- The Administrative and Financial Services Division became the Planning and Administration Division, assuming the function of Departmental Planning.
- The Operations and Maintenance Division was created to coordinate acquisition and operation of heavy equipment and many rental and lease arrangements.
- Over 1,500 miles of highways, secondary roads, winter roads, ice bridges, and access and service roads served the travelling public.

1974
- Maintenance of the Dempster Highway was taken over from the Federal Government.
- The Department of Public Works assumed operational duties for road construction and maintenance.
- The Department of Public Works added affiliate membership in American Association of State Highway and Transportation Officials and membership in Western Association of Canadian Highway Officials to its membership in Road and Transportation Association of Canada.

1975
- The Department of Indian Affairs and Northern Development assigned a number of reconstruction projects to Department of Public Works.

1976
- Regional Project Officers were established in all Regions to manage the many small capital and operations and maintenance projects.
- The Operations and Maintenance Division added a section to develop energy conservation guidelines.

1977
- A joint residual heat recovery project was comin Cambridge Bay.
- The Department of Public Works assumed responsibility in Frobisher Bay (Iqaluit) for the operations and maintenance of the utilidor and the water treatment plant.

1978
- The Project Management Division was split into Architectural and Engineering Divisions.
- The Northwest Territories first structure designed, tendered and constructed in the metric system, Fort Smith Adult Vocational Training Centre, was completed.
- Problematic gravel pad foundations above the treeline were replaced for the first time on a large scale by steel pipe piles using a special drilling machine suitable for the North.

1979
- Work began on the Northwest Territories' first community services centre in Broughton Island, combining community and Government facilities including a gym/social hall, hamlet and Government offices, council chamber, post office and radio station.

1980
- A Conservation and Renewable Energy Development and Demonstration Agreement was signed by the Federal and Territorial Governments.

1981
- The Department of Public Works assumed full responsibility for the Highway Maintenance Operations Program.

1982
- Responsibility for energy conservation promotion in the public and private sectors was transferred to Department of Public Works.
- Two Assistant Deputy Minister positions were established.
- The Finance Division, the Policy, Planning and Training Division and the Contracts and Capital Planning Division were created.

1983
- The first elected Minister of Public Works was appointed.

1984
- The Department of Public Works' name changed to Public Works and Highways.
- The Department of Public Works and Highways assumed responsibility for the Intra-Territorial Road Reconstruction Program from Department of Indian Affairs and Northern Development.
- The Liard Highway was officially opened, linking the Northwest Territories with British Columbia and forming a circular route with the Mackenzie Highway and Alberta.

1985
- Five Government of the Northwest Territories priority funded, three year programs were initiated to: control summer dust problems on community streets; improve the condition and availability of community small docks; provide adequate supplies of crushed gravel for community and Government projects; design and construct further residual heat recovery facilities; and promote energy conservation in the Regions.
- A preventative maintenance program began in all Regions as part of the Maintenance Management System.

1986
- A new Government of the Northwest Territories Lease Policy emphasized leasing of offices, staff housing and group homes instead of Government of the Northwest Territories construction and ownership.
- The Canada/USSR Arctic Science Exchange Program continued with Engineering Division's visit to the USSR to confer on water distribution and treatment and sewage collection facilities.
- The Highway Weigh Scale Program was transferred to the Department of Public Works and Highways.

1987
- The expanded Highways Division was reorganized into four separate Divisions, which included the creation of a new Transportation Planning Division.

DIVISIONAL DESCRIPTIONS

The Directorate

The Deputy Minister's Office

Roles and Responsibilities

The Deputy Minister's Office develops long-range plans, policy proposals and operating guidelines on all Public Works and Highways matters. It is responsible for the management of the Department to ensure consistent application of Departmental policies, programs, standards and procedures throughout the Northwest Territories.

Highlights

A priority for senior management and the Department continues to be the maximization of local and northern involvement in Government construction projects, maintenance activities and the leasing of office and residential facilities. Maintenance activities are contracted to the private sector, wherever appropriate, according to the Government's Privatization Policy, established in October 1985. The leasing of office and residential facilities from local development corporations is also maximized, in keeping with the GNWT's Leasing of Improved Real Property Policy, instituted in December 1986. A summary of Departmental privatization is presented in Figure 3.

To further increase the level of local and northern participation in the Government's capital construction program, the Deputy Minister chaired an interdepartmental committee investigating various innovative approaches to construction project management. Many of these innovative approaches have been in use, on various projects, for several years. A Discussion Paper on maximizing local and northern involvement was presented to the Legislative Assembly in June 1987. As well, the discussion paper was circulated to over 700 northern contractors and community governments for their comments. The Senior Management Committee presented its final report, based upon this public input, to Cabinet in March 1988.

The Department, guided by the Deputy Minister's Office, continued its involvement in the Canada/USSR Arctic Sciences Exchange Program, under the Northern Construction theme. A group of engineers and architects from Public Works and Highways and the Department of Municipal and Community Affairs travelled to the USSR to begin preparation of a town plan for Votcha, an agricultural community in the Komi Republic. This program is designed to promote the exchange of information on unique northern construction and maintenance problems. Facilitated by the recent encouragement of openness by the Soviets in the international marketplace, this exchange may lead to northern Canadian construction and engineering and architectural consulting firms, with their high level of northern technical expertise, accessing the vast Soviet market.

The Deputy Minister's Office continued to promote, where appropriate, the decentralization of programs and services from Yellowknife Headquarters to the Regional Centres. In 1987-88 the decentralization of property management was completed with the establishment of property managers in all Regions.

During June, the Department welcomed over 100 delegates at the 1987 Western Association of Canadian Highway Officials (WACHO) Conference in Yellowknife. The Association includes members from governmental highway representatives from the four western provinces as well as the Yukon Territory. The conference, which was hosted for the first time by one of the Territories, was deemed to be highly successful and productive.

Figure 3

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS PRIVATIZATION

Activity	Actual 1986/87 $000's	Actual 1987/88 $000's	Forecasted 1988/89 $000's
Highway Operations	8,483	9,001	9,100
Marine Operations	3,500	3,646	3,000
Buildings and Works Maintenance	4,320	4,943	5,500
Vehicle Maintenance	504	530	550
Building Leases	21,701	25,909	26,000
Construction	46,098 [1]	53,337 [2]	47,000 [1]
Architectural and Engineering Services	6,536	7,711	7,730
Total	**91,142**	**105,077**	**98,880**

[1] Note: Some of accelerated capital program occurred/to occur.
[2] Note: Majority of accelerated capital program occurred.

Finance Division

Roles and Responsibilities

The Finance Division was created in 1982 to strengthen the financial planning, forecasting and administration in the Department. The Division provides information, assistance and advice to Departmental management and staff on all financial - related matters. Other responsibilities include monitoring the payment of expenditures and collection of revenues, the processing of all Headquarters financial transactions, and coordinating the development of the annual operations and maintenance and revenue budgets.

The Department's expenditures by activity are detailed in Figure 4.

Contracts and Capital Planning Division

Roles and Responsibilities

The Contracts and Capital Planning Division is responsible for the tendering of Department of Public Works and Highways construction contracts, acts in an advisory role on contract administration and coordinates the Department's capital planning processes. The Division also maintains the Department's resource centre, the project files and the contract drawings file. It is responsible for the Contract Administration and Capital Planning Programs.

The Contract Administration Program ensures that contractual and tendering aspects of all Departmental decisions, actions and directives conform to GNWT policy, industry practice and the legal environment.

The Capital Planning Program ensures that the Department has a coordinated, effective, efficient and economical capital plan and that Departmental objectives are maintained during the year as circumstances necessitate changes.

Highlights

The Department's capital expenditures on behalf of other Departments are detailed in the following Figure 5. Summaries of construction, maintenance and service contracts and architectural and engineering contracts are provided in Figure 6.

Policy, Planning and Training Division

Roles and Responsibilities

The Policy, Planning and Training Division was instituted in 1982 to strengthen the ability and capacity in the policy and program development areas, to perform a coordinating function by providing support and assistance to the Minister, Directorate and other Departmental managers in developing policies and directives, and to conduct personnel administration and coordination of Departmental training, human resource planning, and implementation of affirmative action programs.

Highlights

A number of human resource planning programs were initiated in 1987-88. A careers awareness program was started to inform northern high school and college students of the many technical careers available in the NWT. Video and slide presentations describing Public Works and Highways careers were completed for use by Departmental representatives at careers shows and visits to schools.

The Department assumed a lead role in developing the supervisory/ management training program. The program provides management training in the areas of personnel, finance and operations to tradespeople, foremen and other trades supervisors. The program courses were successfully pilot tested and ongoing delivery of the courses in Inuvik, Fort Smith and Iqaluit was planned.

A marine deckhand training course was developed and delivered in three of the ferry communities for local residents interested in working on Departmental ferries. A procedures manual for weigh scale

Figure 4

EXPENDITURES BY DEPARTMENTAL ACTIVITY

Activity	Operations and Maintenance 86/87 $000's	Operations and Maintenance 87/88 $000's	Capital 86/87 $000's	Capital 87/88 $000's
Directorate	$ 5,271	$ 6,303	$ 54	$ 94
Project Management	3,469	5,035	0	0
Operations				
Director, Operations	2,598	2,847	864	280
Buildings and Works	18,529	19,889	740	190
Utilities	28,632	29,217	0	0
Vehicles and Equipment	3,092	2,999	1,007	236
Accommodation Services	20,025	25,011	1,160	2,796
Transportation Engineering/ Transportation Planning	1,945	2,192	10,206	11,754
Marine Operations	3,410	3,922	84	0
Highway Operations	16,106	16,598	1,499	293
Total Department	**$103,077**	**$114,013**	**$15,614**	**$15,643**

Figure 5
1987/88 CAPITAL EXPENDITURES ON BEHALF OF OTHER DEPARTMENTS ($000'S)

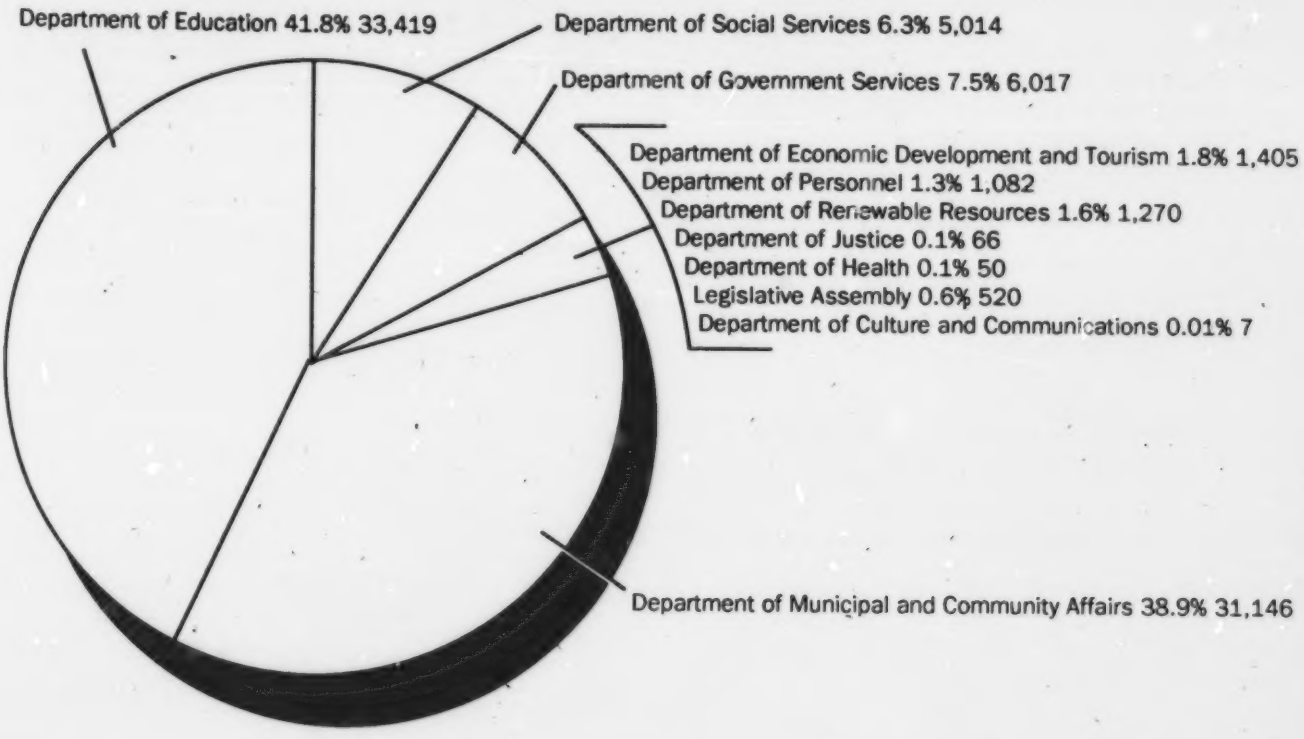

Department of Education 41.8% 33,419
Department of Social Services 6.3% 5,014
Department of Government Services 7.5% 6,017
Department of Economic Development and Tourism 1.8% 1,405
Department of Personnel 1.3% 1,082
Department of Renewable Resources 1.6% 1,270
Department of Justice 0.1% 66
Department of Health 0.1% 50
Legislative Assembly 0.6% 520
Department of Culture and Communications 0.01% 7
Department of Municipal and Community Affairs 38.9% 31,146

Figure 6
CONTRACTS REPORT SUMMARY FOR 1987/88

	Construction, Maintenance & Service Contracts		Architectural and Engineering Contracts	
Region	**Number of Contracts**	**Value of Contracts**	**Number of Contracts**	**Value of Contracts**
Headquarters/Yellowknife	331	$ 6,476,769	22	$ 712,091
Fort Smith	422	20,157,905	46	2,046,616
Inuvik	199	12,867,859	25	599,111
Kitikmeot	83	5,277,603	4	109,750
Keewatin	97	11,375,631	14	1,004,583
Baffin	100	15,300,251	28	3,239,098
Totals	**1232**	**$ 71,456,018**	**139**	**$ 7,711,249**
Total to Northerners	1092	$ 57,032,267	126	$ 7,454,599
Percentage to Northerners	89%	80%	91%	97%

Figure 7

PERSONNEL BY REGION AND ACTIVITY

Activity	Head-quarters	District Office	Fort Smith	Inuvik	Baffin	Keewatin	Kitikmeot	Totals
Directorate	33	6	13	9	10	8	5	84
Project Management	56	3	6	8	13	5	4	95
Accommodation Services	7	4	3	2	4	2	2	24
Buildings and Works	7	21	46	41	52	25	18	210
Vehicles and Equipment	3	2	8	6	6	2	1	28
Utilities	-	-	-	1	2	-	1	4
Transportation Engineering and Planning	56	-	-	-	-	-	-	56
Marine Operations	8	-	-	-	-	-	-	8
Highway Operations	121	-	-	-	3	-	-	124
Operations	5	-	-	-	-	-	-	5
Total Department	**296**	**36**	**76**	**67**	**90**	**42**	**31**	**638**

and highways patrol staff was developed in 1987 and staff completed refresher training in compliance procedures at British Columbia's Fraser Valley College.

The above Figure 7 details the Department's personnel by Region and by Activity.

Energy Management Division

Roles and Responsibilities

The Energy Management Division emphasizes efficient energy use in the Northwest Territories by identifying and providing information on energy conservation measures to the public and private sectors. Unusual opportunities and barriers confront northerners in this regard. Very high per capita rates of energy consumption driven by extreme climates and distances are offset by significant energy subsidies, a high dependence on government as an economic base, and a relatively transient population that is financially uncommitted to the NWT. Heavily dependent on petroleum for its heating, electrical, and transportation needs, the NWT remains especially vulnerable to volatile world energy prices.

The Municipal, Territorial and Federal government sector consumes an estimated one-third of all petroleum products in the NWT. The remaining two-thirds is consumed by the private sector including mining and exploration. Transportation consumes approximately 41% of private sector petroleum consumption. The Government of the NWT spends approximately 10% of its total operations and maintenance budget ($636 million in 1987/88) on utilities. , Public Works and Highways, NWT Housing Corporation, and Municipal and Community Affairs are the three departments that bear this cost.

Energy Management Officers were placed in the Kitikmeot, Baffin and Fort Smith Regions in December, 1987. Together with staff in the remaining Regions and Yellowknife, they provided information and services at the community level to home occupants, municipal officials, owners and operators of small businesses and institutions, school students and teachers, operators of GNWT buildings, and the general public. Highlights of Divisional activities during 1987/88 are noted below.

Highlights

Municipalities:

- Encouragement and assistance were provided to hamlets in collecting individual building utility consumption data.
- Building energy performance indices were determined for municipal buildings in Fort Norman, Sachs Harbour, Fort Franklin, Fort McPherson, Aklavik, Tuktoyaktuk, Paulatuk, Baker Lake, Coral Harbour, Rankin Inlet, Repulse Bay and Whale Cove.
- Energy audits were completed on all buildings in the Hamlets of Sachs Harbour, Fort Franklin, Fort McPherson, and Arviat. Recommendations to Hamlet Councils and staff were made in most of these communities, and funding committed to immediate action items.
- Oil burner training workshops for municipal maintenance personnel were held in all Regions.
- Two Hamlet Councils, Whale Cove and Coral Harbour, completed successful challenges in which staff exceeded targets in the annual reduction of utilities.

Small Business:

- Energy audits and on-site advice provided: 11
- Workshops for private sector furnace maintenance staff: 10

- Assistance to businesses in considering alternate energy sources: 2
- A new program for business, the Energy Efficiency Loan Interest Subsidy Program, was developed during the year.
- Ongoing ad hoc communication with individual businesses or Chambers of Commerce regarding services.

Home Occupants:
- Residential Advisory Service home inspections provided: 14
- Technical advice consultation with Housing Association maintenance staff regarding problems and needs on an ad hoc basis.
- Enquiries from residents, by person, phone or mail.
- Projects jointly undertaken with Energy, Mines and Resources Canada included production of a series of new multilingual home energy management publications, and portable energy-efficient product display boards.

Schools:
- Presentations to classes: 22
- Presentations to teachers: 5
- Financial assistance for teacher consultant (Fort Simpson) to attend National Energy Educators conference.
- Design and construction of portable alternate energy (solar, photovoltaic, wind) display for use in Kitikmeot Region schools.
- Energy awareness contest for Yellowknife schools.

Territorial Public Buildings:
- Energy conservation projects identified and substantiated to reduce GNWT utility costs: 11
  A total of $500,000 was identified for such projects with an average simple payback of 1.5 years.
- Assisted in developing the terms of reference for a GNWT Petroleum Contingency Plan.
- Employee awareness initiatives through regional staff newsletters.

Public Awareness:
- Design, production and airing of public education announcements for television.
- Newspaper and in-flight magazine advertisements.
- Organization and participation in special events such as energy awareness week and community fairs.
- Participation in community radio talk and phone-in shows.
- Creation of energy conservation display kiosks in hamlet offices/libraries in many communities.

DIVISIONAL DESCRIPTIONS

Project Management

INTRODUCTION

The Department of Public Work and Highways' responsibility for providing the infrastructure of buildings and works required by the Government is carried out by the two Project Management Divisions - Architectural Division and Engineering Division - and by project management staff in the Regional and District offices. As part of the Department's plan to decentralize the implementation of capital works, responsibility for the implementation of many major facilities has been transferred to the Regional offices with managerial and technical support provided through Headquarters.

Project management means the management of a team of people to produce, on schedule and within budget, a completed project that meets the needs of the end users. Project management staff coordinate the activities of client department program managers, architectural and engineering consulting firms and construction contractors throughout the design and construction of capital construction projects.

Technical and project management services are provided to all departments requiring new facilities or extension, upgrading or major maintenance to existing facilities. Assistance is also provided to tax-based communities and non-profit organizations. Under the terms of a partial authority agreement, communities may manage capital projects with the assistance of Public Works and Highways. These services are provided in-house by project management staff or with the assistance of architectural and engineering consulting firms, depending on the nature and size of the project and the staff workload.

The project management staff within Public Works and Highways provide a consistent approach to capital construction and ensure facilities will be economical to construct and operate, are appropriate for conditions in the NWT and meet the requirements of the users. A primary goal is to obtain the maximum benefit for NWT labour and businesses from the construction of GNWT buildings and works. Specific procedures are followed with respect to tendering, awarding of contracts, reporting of local/northern involvement forecasted and achieved during construction, use of commercial room and board during construction, etc., to ensure this goal is realized.

Architectural Division

Roles and Responsibilities

The Architectural Division is responsible for the design and construction of all buildings required by the Government of the NWT for the delivery of its programs. This includes facilities as diverse as schools, community halls, arenas, firehalls, garages, community offices, parks and tourism facilities, group homes, secure facilities, health centres, court facilities and libraries.

Highlights

Over the last 15 years the Architectural Division has gained a reputation for its knowledge and experience in northern design and construction. In 1987-88 members of the Division participated in several important events where that knowledge has been shared and promoted.

As part of the Canada/USSR Arctic Sciences Exchange Program, a group of DPW&H architects and engineers travelled with planners from the Department of Municipal and Community Affairs to the Soviet Union in October, 1987. The team collected data during their visit and on their return prepared a preliminary community plan for Votcha, a small town in Siberia. A team of Soviet designers had visited the Western Arctic earlier in the year and produced schematic designs for a new school in Tuktoyaktuk as part of the exchange.

A presentation was made to the National Research Council (NRC) in Ottawa in November of 1987 in response to their publication of guidelines for northern construction. The presentation stressed the need for building science research for the north and encouraged the NRC to work closely with the Architectural Division in gathering data and promoting practical solutions to northern building problems.

For the second time the Architectural Division, together with the GNWT Housing Corporation, participated in the four day Winter Cities Symposium held in Edmonton in February, 1988. Delegates from as far away as China, Iceland, New Zealand and Switzerland, visited an exhibit of community development and construction in the NWT. A well received presentation, "Appropriate Technology for the North", was inciuded in the conference seminars.

The following is a summary of major projects underway in the 1987/88 fiscal year. Figure 8 shows Architectural Division projects with 1987/88 expenditures greater than $100,000.

Education

Construction began on five new schools based on the "stand alone school" design developed by DPW&H with the Department of Education. Establishing a standard spatial program has resulted in more efficient use of space and a

reduction in construction and operating costs. Under construction were schools in Igloolik, Pond Inlet, Arviat, Rankin Inlet and Gjoa Haven. Construction also commenced on the Iqaluit campus of Arctic College, renovations to Arctic College in Inuvik, and renovations to student residences in Yellowknife. New schools were opened in Fort Liard, Fort Good Hope, Chesterfield Inlet and Pelly Bay, and student residence renovations were completed in Inuvik and Rankin Inlet.

Figure 8
Architectural Division Projects with 1987/88 Expenditures Greater Than $100,000

Community	Facility	Client[1]	1987/88 Expenditure
Aklavik	Recreation Complex	MACA	$1,675,000
Arctic Red River	Gym	MACA	400,000
Arctic Red River	Firehall	MACA	285,000
Arviat	Arena/Community Hall	MACA	240,000
Arviat	Firehall/Community Offices	MACA	800,000
Arviat	School	EDUC	2,900,000
Baker Lake	Arena/Community Hall	MACA	845,000
Baker Lake	Garage - 6 Bay	MACA	306,000
Cambridge Bay	Community Hall	MACA	1,200,000
Cape Dorset	Recreation Complex	MACA	1,683,000
Chesterfield Inlet	School	EDUC	2,358,000
Coppermine	Recreation Complex	MACA	1,005,000
Coral Harbour	Recreation Complex	MACA	1,205,000
Ft. Good Hope	School	EDUC	145,000
Ft. Liard	School	EDUC	2,570,000
Ft. McPherson	Arena/Community Hall	MACA	1,480,000
Ft. Providence	Arena/Community Hall	MACA	1,175,000
Gjoa Haven	Office/Warehouse	RENRES	292,000
Gjoa Haven	School	EDUC	2,000,000
Hall Beach	Community Hall	MACA	990,000
Hay River	Correctional Centre Renov.	SOCSRV	220,000
Hay River Reserve	Community Gym	MACA	282,000
Holman	Community Offices	MACA	778,000
Igloolik	School	EDUC	4,300,000
Inuvik	Firehall	MACA	282,000
Inuvik	Arctic College Renov.	EDUC	300,000
Inuvik	Student Residence	EDUC	2,817,000
Iqaluit	Secure Facility	SOCSRV	200,000
Iqaluit	School	EDUC	250,000
Iqaluit	Arctic College	EDUC	5,205,000
Jean Marie River	Gym/Community Offices	MACA	120,000
Lake Harbour	Gym	MACA	157,000
Lake Harbour	Firehall Expansion	MACA	172,000
Pangnirtung	Recreation Complex	MACA	1,054,000
Pangnirtung	Visitor Centre	ED&T	155,000
Pangnirtung	School	EDUC	225,000
Pelly Bay	School	EDUC	300,000
Pond Inlet	Curling Rink	MACA	505,000
Pond Inlet	School	EDUC	2,013,000
Rae Lakes	Firehall/Garage	MACA	150,000
Rankin Inlet	Student Residence	EDUC	6,430,000
Repulse Bay	School	EDUC	160,000
Sachs Harbour	Recreation Complex	MACA	1,585,000
Yellowknife	Student Residence	EDUC	349,000
Yellowknife	Correctional Centre	SOCSRV	2,740,000
Yellowknife	Community Gym (Lot 500)	MACA	119,000

[1]MACA - Department of Municipal and Community Affairs
EDUC - Department of Education
ED&T - Department of Economic Development and Tourism
RENRES - Department of Renewable Resources
SOCSRV - Department of Social Services

Sport and Recreation
A large number of projects were undertaken this year in response to the emphasis placed by the Government on providing communities with basic recreation facilities. Completed projects include recreation complexes in Aklavik, Sachs Harbour, Coppermine, Coral Harbour, Cape Dorset, and Hall Beach. Community halls and arenas were completed in Fort Providence , Fort McPherson and Cambridge Bay. Under construction were the Pangnirtung recreation complex, Pond Inlet curling rink, and Holman community offices. Both Baker Lake and Arviat Hamlet Councils were involved in the design and construction of their own community halls and arenas through partial authority agreements with DPW&H. The Architectural Division also provided assistance to the City of Yellowknife and the Hamlet of Fort Simpson during design and construction stages of new recreation facilities.

Community Works
New firehalls were under construction in Arviat, Lake Harbour, Rae Lakes and Arctic Red River. Six-bay community garages were under construction in Baker Lake and Rankin Inlet.

Conservation, Education and Resource Development
An office/warehouse complex was under construction in Gjoa Haven for the Department of Renewable Resources.

Corrections Services
Major renovations to secure facilities in Yellowknife, Hay River and Iqaluit were in design and construction phases.

Legislative Assembly
Expanded interpreter facilities were added to improve translation and communications in the Legislative Assembly.

Court Services
Court facilities in Iqaluit were renovated to accommodate a full time Territorial Court with a resident Judge.

Tourism and Parks
The NWT saw a major increase in tourism following its highly successful pavilion at Expo '86 in Vancouver. Improvements to many existing parks were undertaken including work at Chuk Park outside of Inuvik, Queen Elizabeth Park in Ft. Smith, and Blackstone Park on the Liard Highway. Visitor centres were completed in Pangnirtung and Kekerton Island.

Engineering Division

Roles and Responsibilities

The Engineering Division is responsible for the design and construction of new capital works and the upgrading of facilities for water distribution, sewage and solid waste disposal,the storage and dispensing of bulk petroleum products and central heat distribution, including the recovery and distribution of residual heat from diesel-electric power plants. The Division is also assigned to implement capital works for the forest fire fighting program of the Department of Renewable Resources, since their takeover of these responsibilities from the Federal Government. Engineering is also responsible for coordinating the development of standards for the design and construction of buildings and works.

Highlights

Some typical capital projects completed by the Engineering Division in 1987/88 include the expansion to the water storage reservoir in Arviat (Eskimo Point) completed by a local contractor; improvements to the sewage system at Norman Wells which will eliminate the discharge of waste directly into the Mackenzie River; rebuilding and expansion of the bulk fuel storage facility at Arctic Bay to meet the growing need for gasoline and heating oil in that community; using heat recovered from the NWT Power Corporation plant to heat the community water plant in Coppermine; and the air tanker base in Fort Simpson which will greatly improve the Government's forest fire fighting capabilities.

Engineering Division was responsible for the implementation of 65 capital projects with a total 1987/88 expenditure of $ 10 million. A summary of projects which had 1987/88 budgets of more than $100,000 is shown in Figure 9.

Members of the Engineering Division represented the Department notably by planning the development of municipal infrastructure for a town in northern U.S.S.R. (Votcha) as part of the multi-year Canada/USSR Arctic Sciences Exchange Program and participating in a World Health Organization Consultation held in Greenland on water supply and waste disposal under cold climate conditions. Members of the Division also achieved recognition by presenting papers on buried water and sewer service connections in permafrost areas to the Canadian Society for Civil Engineering and to the International Federation of Municipal Engineers.

Figure 9
ENGINEERING DIVISION PROJECTS WITH 1987/88 EXPENDITURES GREATER THAN $100,000

Community	Facility	Client[1]	1987/88 Expenditure
Arctic Bay	Fuel Facility	Gov't Services	$ 780,000
Arctic Red River	Fuel Facility	Gov't Services	236,000
Arviat	Water Storage Reservoir	MACA	1,070,000
Baker Lake	Fuel Facility	Gov't Services	1,475,000
Broughton Island	Fuel Facility	Gov't Services	1,580,000
Fort Franklin	Fuel Facility	Gov't Services	193,000
Fort McPherson	Water & Sewer Piping	MACA	778,000
Fort Simpson	Air Tanker Base	Ren Res	416,000
Inuvik	Air Tanker Base	Ren Res	110,000
Norman Wells	Sewage Disposal	MACA	1,205,000
Pelly Bay	Water Intake/Truckfill	MACA	615,000
Rae Lakes	Non-Directional Beacon	MACA	103,000
Rankin Inlet	Fuel Facility	Gov't Services	1,050,000
Rankin Inlet	Airport Aviation Fuel Facility	Gov't Services	325,000
Snowdrift	Non-Directional Beacon	MACA	130,000
Tuktoyaktuk	Solid Waste Disposal	MACA	149,000

[1]Gov't Services - Department of Government Services
MACA - Department of Municipal and Community Affairs
Ren Res - Department of Renewable Resources

DIVISIONAL DESCRIPTIONS

Operations Division

The Operations Division is responsible for overall management and coordination of the lease or purchase, disposal, operation and maintenance of Territorial Government buildings, works and mobile equipment. The Division is separated into three sections:

- Buildings and Works Section is responsible for the Buildings and Works Management and Support to Headquarters and Regions Program, the Residual Heat Recovery Program, the Energy Conservation Capital Program, the Roof Retrofit Program, the Operational Audit Program, the Privatization Program, and the Utilities Management Program;
- Vehicles and Equipment Section is responsible for the Vehicle and Mobile Equipment Acquisition Program and the Vehicle and Mobile Equipment Operation and Maintenance Program;
- Accommodation Services Section is responsible for the Property Management Program.

To cost-effectively operate and maintain the Government's assets, the Division implements a Maintenance Management System (MMS). Through the MMS, the maintenance activities of the various programs can be predicted, the work planned, the costs identified and recorded, and production measured.

Buildings and Works

Roles and Responsibilities

The Buildings and Works Section is responsible for coordinating the Regional Offices' operation, maintenance and repair of buildings and works owned or leased by the GNWT. Emphasis is placed on the energy efficient operation of facilities such as schools, hostels, staff houses, office buildings, warehouses, water systems, etc. Maintenance work is contracted out where practical.

The Department assumed the responsibility of maintaining fire fighting program assets as a result of the devolution of this program from the Federal Government to the Territorial Government.

To maintain the Government's assets, the Department has personnel located in almost all of the communities in the Territories. The following Figure 10 indicates the distribution of operation and maintenance personnel (excluding Regional/Area Maintenance Officers and office staff) throughout the NWT. The total of 189 employees are allocated among the Regions as follows:

Baffin - 48;
Fort Smith - 44;
Inuvik - 36;
Keewatin - 22;
Kitikmeot - 19;
Yellowknife District - 33.

The Section is responsible for the following programs, which are subsequently detailed:

- Residual Heat Recovery Program;
- Energy Conservation Capital Program;
- Roof Retrofit Program;
- Operational Audit Program;
- Privatization Program.

Figure 10
LOCATION OF BUILDINGS AND WORKS OPERATION AND MAINTENANCE PERSONNEL

Community	Employees	Community	Employees
Baffin Region		Inuvik Region	
Broughton Island	2	Aklavik	2
Cape Dorset	2	Arctic Red River	2
Clyde River	1	Fort Franklin	2
Grise Fiord	2	Fort Good Hope	2
Hall Beach	1	Fort McPherson	3
Igloolik	2	Fort Norman	2
Iqaluit	25	Inuvik	18
Lake Harbour	1	Norman Wells	3
Nanisivik	3	Tuktoyaktuk	2
Pangnirtung	3	**Total**	**36**
Pond Inlet	2		
Resolute	2	Fort Smith Region	
Sanikiluaq	2	Fort Providence	1
Total	**48**	Fort Resolution	1
		Fort Simpson	15
Keewatin Region		Fort Smith	14
Baker Lake	4	Hay River	8
Chesterfield Inlet	1	Pine Point	1
Coral Harbour	2	Rae	2
Arviat	3	Snowdrift	1
Rankin Inlet	11	Wrigley	1
Repulse Bay	1	**Total**	**44**
Total	**22**		
		Yellowknife District	20
Kitikmeot Region		**Total Personnel**	**189**
Cambridge Bay	9		
Coppermine	3		
Gjoa Haven	2		
Holman	1		
Pelly Bay	1		
Spence Bay	3		
Total	**19**		

Highlights

Residual Heat Recovery Program

Previously a regularly funded program, the Residual Heat Recovery Program has been since 1985 one of the Government's priority funded programs. It is intended to reduce utility costs by utilizing the heat in the engine's cooling water and the exhaust gases of diesel electrical generating plants operated by the Northern Canada Power Commission (NCPC, now known as the NWT Power Corporation). The program includes feasibility studies, design, construction and monitoring of projects at various sites in the NWT.

A formal master agreement between the Government and the NCPC was signed in 1982 whereby the parties agreed to the exclusive use of residual heat by the Government in all NWT communities. Subsidiary agreements were also signed with the NCPC for various specific locations.

A list of projects undertaken in 1987/88 appears in Figure 11. The budget of $164,000 allocated in 1987/88 allowed for the continuation of the Rankin Inlet, Cambridge Bay Phase I and Coppermine projects, and the commencement of Cambridge Bay Phase II.

Energy Conservation Capital Program

The utilities activity under Buildings and Works funds the utility costs for heat, electricity, water, sewage and garbage collection services for all buildings and works owned and operated by the GNWT.

The Department instituted the Energy Conservation Capital Program in 1984 to assist in minimizing the growth in Government utility expenditures by performing a variety of retrofit projects throughout the NWT. Funding provides for the design and construction of projects with short payback periods. Due to competition between several promising projects for funding, priorities are allotted for project proposals based on payback periods. The following Figure 12 indicates projects undertaken in 1987/88 and their benefits in terms of utility and maintenance cost reductions. Total expenditures of $472,000 are estimated to yield annual savings of $379,500.

Roof Retrofit Program

The roof repair of various Government buildings had been handled routinely prior to 1985. The Roof Retrofit Program was instituted in 1985 to coordinate the efficient and economical repair and/or replacement of roofs on various GNWT buildings. Investigation, design, repair and replacement of roofs are conducted. Figure 13 contains a list of projects managed in 1987/88.

Operational Audit Program

The Buildings and Works Section initiated in 1985/86 a program to audit the operation and maintenance of GNWT buildings and other facilities. These audits are designed to identify operational deficiencies and recommend procedural modifications. Any design related observations are referred to the Project Management Divisions. During 1987/88, the Cambridge Bay School, GREC School in Iqaluit, the Regional Administration Office in Fort Smith and the Hodgson Building in Yellowknife were audited and recommendations made. The Section proposes to audit at least one facility in each Region every year.

Figure 11

1987/88 RESIDUAL HEAT RECOVERY PROGRAM

Community	Facility Using Recovered Heat	Project Stage In 1987/88	1987/88 Cost ($000's)	Total Project Cost ($000's)	Estimated Annual Energy Saving ($000's)	Payback Period (Years)
Cambridge Bay Phase I	water plant, arena	design (upgrade), partial construction	62	124	49	2.53
Cambridge Bay Phase II	extend system to school	predesign	21	758	186	4.08
Coppermine	water plant	design, partial construction	45	80	23	3.48
Igloolik	school	predesign	1	-	-	-
Lac La Martre	school	design	2	-	-	-
Rankin Inlet	DPW office, shops, warehouse	design, construction	27	152	71	2.14
Spence Bay	water plant, school, housing	predesign	6	-	-	-
Total			**164**	**1,114**	**329**	**3.39**

Figure 12
1987/88 Energy Conservation Capital Program

Location	Project (Various Buildings)	Capital Cost ($)	Annual Benefit ($)	Payback Period (Years)
Igloolik	Furnace Replacement	3,200	710	4.51
Inuvik	Upgrading Staff Housing	33,300	5,415	6.15
Inuvik/McPherson	Replacing Electric Hot Water Heaters	28,000	9,045	3.10
Iqaluit	Swimming Pool Cover	3,500	21,220	0.16
Iqaluit	Upgrade Heating, Ventilation and Air Conditioning Systems	2,200	50,455	0.04
Iqaluit	Upgrade Utilidor Insulation	155,700	34,680	4.49
Keewatin (Various)	Exit Sign Replacement	9,200	5,645	1.63
Kitikmeot (Various)	Oil Burner Replacement	89,700	178,955	0.50
Rankin Inlet	Domestic Hot Water Heater Replacement	26,500	10,000	2.65
Rankin Inlet	Fan Motor Replacement	15,000	2,845	5.27
Rankin Inlet	Pump Motor Replacement	21,000	18,530	1.13
Rankin Inlet	Replacing Oil Burners	84,700	42,000	2.02
Total or Average		**472,000**	**379,500**	**1.24**

Privatization Program
The GNWT is committed to increased privatization of its programs and services where practical.

The Buildings and Works Section coordinates the contracting of operations and maintenance activities for the buildings and works in the Regions. This activity increased local business participation in providing operation and maintenance services to the Department for various GNWT buildings. The extent of the Department's privatization is presented in the discussion of the Directorate.

Figure 13
1987/88 ROOF RETROFIT PROGRAM

Community	Building	Capital Cost ($000's)
Aklavik	Sixplex	$ 13
Baker Lake	School	70
Cambridge Bay	Bayview Apartments	262
Fort Good Hope	School	9
Fort McPherson	School and Sixplex	6
Fort Providence	School	37
Fort Simpson	School	10
Fort Simpson	Office Building	1
Fort Smith	Elementary and High Schools	436
Iqaluit	Staff Housing	341
Pond Inlet	Elementary/Junior High School	210
Tuktoyaktuk	School (Design Only)	8
Yellowknife	Sir John Franklin High School	15
Various	Inspections, Designs	88
Total		**$ 1,506**

Vehicles and Equipment

Roles and Responsibilities

The Vehicles and Equipment Section is responsible for the acquisition, maintenance and operation of all GNWT vehicles and mobile equipment, excluding Highways Divisions' vehicles and equipment.

The Vehicles and Equipment Section manages GNWT departments' capital programs for the purchase of new and replacement mobile equipment units. This Section reviews all departments' requirements to ensure the appropriate types and numbers of vehicles and equipment are provided.

The activity develops specifications that will ensure new vehicles and equipment purchased by the Government will meet the special challenges of operating in the North. All new vehicles and equipment are inspected at the vendors' premises to ensure the vehicles meet the astendered specifications.

Highlights

The number of vehicles and equipment purchased for all departments during the 1987-88 fiscal year totalled 78 units, costing $1,079,000, excluding Regionally purchased items. The Regions may purchase only items under the miscellaneous category.

The types of vehicles purchased consist of passenger vehicles, light trucks, municipal vehicles such as fuel, water and sewage trucks, heavy construction equipment, boats, all-terrain vehicles, snowmobiles and other miscellaneous equipment. Figure 14 shows the type of vehicles purchased for all Territorial Government departments.

Operation and maintenance responsibilities are achieved by providing a Maintenance Management System (MMS) and training seminars for maintenance personnel, and by privatizing Public Works and Highways' repair garage facilities.

As in past years, the development and implementation of the MMS for vehicles and equipment continued to be a Departmental priority.

In 1987-88 the Equipment Management Section provided MMS training to Equipment Technical Officers, Equipment and Vehicle Maintenance Technicians, Hamlet Foremen and mechanics, and maintenance contractors in all Regions and districts in the NWT. Subjects presented addressed existing procedures and maintenance requirements as applied to inventory control systems, the vehicle maintenance and inspection program, use and control of GNWT vehicles, capital planning needs, operation and maintenance planning needs, recording data and other vital information, vehicle safety and communication procedures.

In recognition of the importance and annual expenses involved with fleet services, the Department views continuous training and development efforts as a tool to control costs and increase productivity of their vehicle and equipment assets.

Community and Regional operations were monitored for adherence to the MMS through annual visits to each area and Region. Training is also provided during these visits. Resident Equipment Technical Officers in each Region monitor and support this program using various methods of computing and reporting of vehicle and equipment utilization and operating costs.

As a result of the transfer of health program responsibilities, which included the transfer of various assets, a budget and program were developed for the maintenance, repair and purchasing of Department of Health vehicles and equipment. Operating agreements were also established with Regional Health Boards.

Devolving the management of water and sewage systems to municipal governments also affected this Section's vehicle and equipment inventory control system. Transferring the responsibilities for operation and maintenance of water and sewage systems also included the transfer from the Department to various local governments of vehicles and equipment previously covered by this program.

To ensure efficiency, the Equipment Management Section provided seminars and other orientation related programs. As vehicular technology evolves rapidly, equipment and vehicle administrators, operators and technicians must keep abreast of technology in areas such as vehicle and equipment safety, energy conservation and anti-pollution.

Figure 14
TYPES OF VEHICLES

Vehicle Type[1]	Number of Units	Percent (%)
Light Vehicles	23	30%
Municipal Vehicles	28	36%
Passenger Vehicles	8	10%
P.O.L. Vehicles	7	9%
Miscellaneous	7	9%
Heavy Construction Equipment	5	6%
Total	**78**	**100%**

[1]NOTE: Definitions of Vehicle Types
Light Vehicles: includes pickups, crew cabs, trades vans and stake trucks under 10,000 lbs. gross vehicle weight.
Municipal Vehicles: includes water delivery, sewage pickup, garbage compactors, dump trucks and stake garbage trucks.
Passenger Vehicles: includes sedans, window vans, suburbans and busses.
P.O.L. Vehicles: includes petroleum, oil and lubricant (POL) vehicles such as fuel delivery tank trucks.
Miscellaneous: includes portable heaters, all-terrain vehicles, motor toboggans, cement mixers and portable sanders.
Heavy Construction Equipment: includes graders, front-end loaders and bulldozers.

In 1987-88 the Equipment Management Section participated in the development and delivery of various information and orientation programs to assist Hamlet staff in better understanding the many benefits of Maintenance Management and Equipment Management Systems.

The computer programs, which were introduced in 1986-87 to manage the GNWT vehicle and equipment capital asset inventory, proved to be of great value to this Section. Much of the data required in the day-to-day decision-making process is now readily available. The asset inventory forms the basis for establishing and preparing maintenance and operating budgets.

In the maintenance of vehicles and equipment, implementation of privatization plans continued. All vehicle maintenance in the Baffin and Keewatin Regions is now performed by private contractors.

Accommodation Services

Roles and Responsibilities

The Accommodation Services Section provides Territorial Government departments and their designated boards and agencies with office space and special purpose space. Space is allocated in both GNWT owned and leased buildings. Space entitlement is based on the Office Space Allocation Standards Directive.

The acquisition of new space is based on the Expense Leasing of Improved Real Property Policy adopted in December 1986. The Accommodation Services Section reviews requests for space and monitors usage of space in both owned and leased buildings to ensure optimal utilization. Through privatization initiatives the responsibility for the day-to-day operation and maintenance of leased properties is being transferred from the Department to landlords. This Section carries out periodic inspections to ensure that in leased properties the landlords are carrying out their obligations under the terms of the leases.

On behalf of the Department of Personnel, this Section manages staff housing. New housing is acquired when requested and this Section administers all leases with employees.

Highlights

The total lease budget managed by Accommodation Services in 1987-88 was $23,250,000. Details of new leases awarded and leases renewed are provided in Appendix D. A summary of all operational leases for the 1987-88 fiscal year follows in Figure 15.

Decentralization

In 1986, the Property Management Program was partially decentralized to the Yellowknife District Office and the Fort Smith, Inuvik and Baffin Regions. In April of 1987, the remaining Regional Property Manager positions were filled in the Keewatin and Kitikmeot Regions and decentralization was completed. Lease management has now moved completely to the Regional and district offices, with the Headquarters unit providing a central resource to aid the Regional property management teams.

Figure 15
ACCOMMODATION SERVICES LEASE SUMMARY 1987/88

Region	Accommodation Type	Rent	Operation & Maintenance	Tenant Improvements	Total
Headquarters	Commercial	$ 5,029,014	$ 2,539,673	$ 555,167	$ 8,123,854
	Residential	1,129,685	369,596	0	1,499,281
Fort Smith	Commercial	647,652	206,969	94,392	949,013
	Residential	620,770	105,085	0	725,855
Inuvik	Commercial	875,119	176,599	83,809	1,135,527
	Residential	531,242	250,056	0	781,298
Baffin	Commercial	1,187,362	531,383	320,717	2,039,462
	Residential	2,275,967	1,453,880	59,057	3,788,904
Keewatin	Commercial	540,247	183,518	160,459	884,224
	Residential	990,162	209,176	0	1,199,338
Kitikmeot	Commercial	708,128	389,031	269,976	1,367,135
	Residential	760,970	4,921	0	765,891
Total	**Commercial**	**$ 8,987,522**	**$ 4,027,173**	**$1,484,520**	**$14,499,215**
	Residential	**$ 6,308,796**	**$ 2,392,714**	**$ 59,057**	**$ 8,760,567**

Planning and Programming
During the 1987-88 year, studies were completed on office accommodations in the Inuvik and Keewatin Regions. A study was commenced on the office requirements for Iqaluit. In Yellowknife, departmental reviews were undertaken for departments located in the Courthouse Building and the Laing Building. A review of the GNWT Office Space Allocation Standards was also initiated.

Training
At present, property management trainees are located in the Headquarters unit and in the Fort Smith Region. Accommodation Services is reviewing the training requirements for in-service trainees with the intent of developing a specialized training program for northern Property Managers which would be augmented by enrolment in a recognized National Certification Program. The Department prefers to develop property management personnel in the Regions by training long term residents rather than by importing personnel from the southern areas of the country.

Policy and Procedures
The Accommodation Services Manual was initially developed in 1986. This manual details the procedures to be followed to deliver adequate property management services. Revisions are continually incorporated to ensure this manual reflects the changes evolving in the field.

The Section is reviewing the disposal process for real property and is developing a policy to standardize the procedures. In 1987-88 the Executive Council approved the Revenue Leasing of Improved Real Property Policy by which the Government temporarily rents surplus space to private organizations.

DIVISIONAL DESCRIPTIONS

Highways

Transportation Planning Division

Roles and Responsibilities

The Transportation Planning Division has gradually been assuming responsibility for provincial-type activities related to highway planning in the NWT, a role previously filled by the Federal Department of Indian Affairs and Northern Development.

Highlights

The Division has been involved in the continuing negotiations with Federal officials to finalize the transfer of Inter-Territorial Highway Reconstruction Program responsibilities to the GNWT. The Inter-Territorial Highways, the Mackenzie, Liard and Dempster Highways, are highways that enter the NWT from another Territory or Province. This transfer will also include transfer of responsibility for ferries and ferry support infrastructure, as well as highway maintenance camps along the Inter-Territorial highway system.

The Division also represents the Department and the GNWT on a national committee to develop uniform vehicle weights and dimensions for commercial trucking across Canada. An agreement will be developed for signature by all jurisdictions, establishing the parameters which, if met, will allow a truck to drive from one end of Canada to the other without hindrance or permit. Revisions to the Large Vehicle Control Regulations are anticipated, recognizing the recommendations of the committee. Meanwhile policy guidelines have been drafted to allow passage of vehicles meeting the recommended weight and dimension criteria.

The Division is responsible for the compilation of traffic count volumes, and their distribution to various users within the Department and outside. Work has also been undertaken to revise the regulations governing commercial signs along the highway network. These will transfer more responsibility for such controls to local jurisdictions.

Transportation Engineering Division

Roles and Responsibilities

The Transportation Engineering Division delivers program responsibilities in the areas of highway reconstruction, community access roads, services for client departments of the GNWT and priority programs. Planning, development of standards and criteria, design and construction are conducted primarily within the Division utilizing four project management groups (Highway Programs, Community Programs, Highway Structures and Design Services) plus administration support. The Division is located in Yellowknife Headquarters.

Highlights

GNWT funded highway reconstruction projects in 1987/88 included reconstruction of the Yellowknife Highway from Edzo to the Rae access and paving of the Hay River Highway from Enterprise to Hay River, completing a three-year project to reconstruct this highway. The Ingraham Trail from km 19 to km 29 and the Fort Smith Highway from km 61 to Sandy Lake were both reconstructed and surface treated. Crushing projects occurred during the winter to supply materials for future construction of the Fort Smith Highway from km 0 to km 40 and the Fort Providence access road.

The Arctic Bay to Victor Bay road on northern Baffin Island was completed and now provides an all season link for area residents using the hunting, fishing and camping areas at Victor Bay.

Minor projects to repair bridge structures and culverts were also completed, as well as an extensive pre-engineering program for future reconstruction projects. Total GNWT reconstruction expenditures for 1987/88 were approximately $9 million.

In addition to GNWT funded projects, the Division also managed highway reconstruction projects funded by the Federal Department of Indian Affairs and Northern Development under their

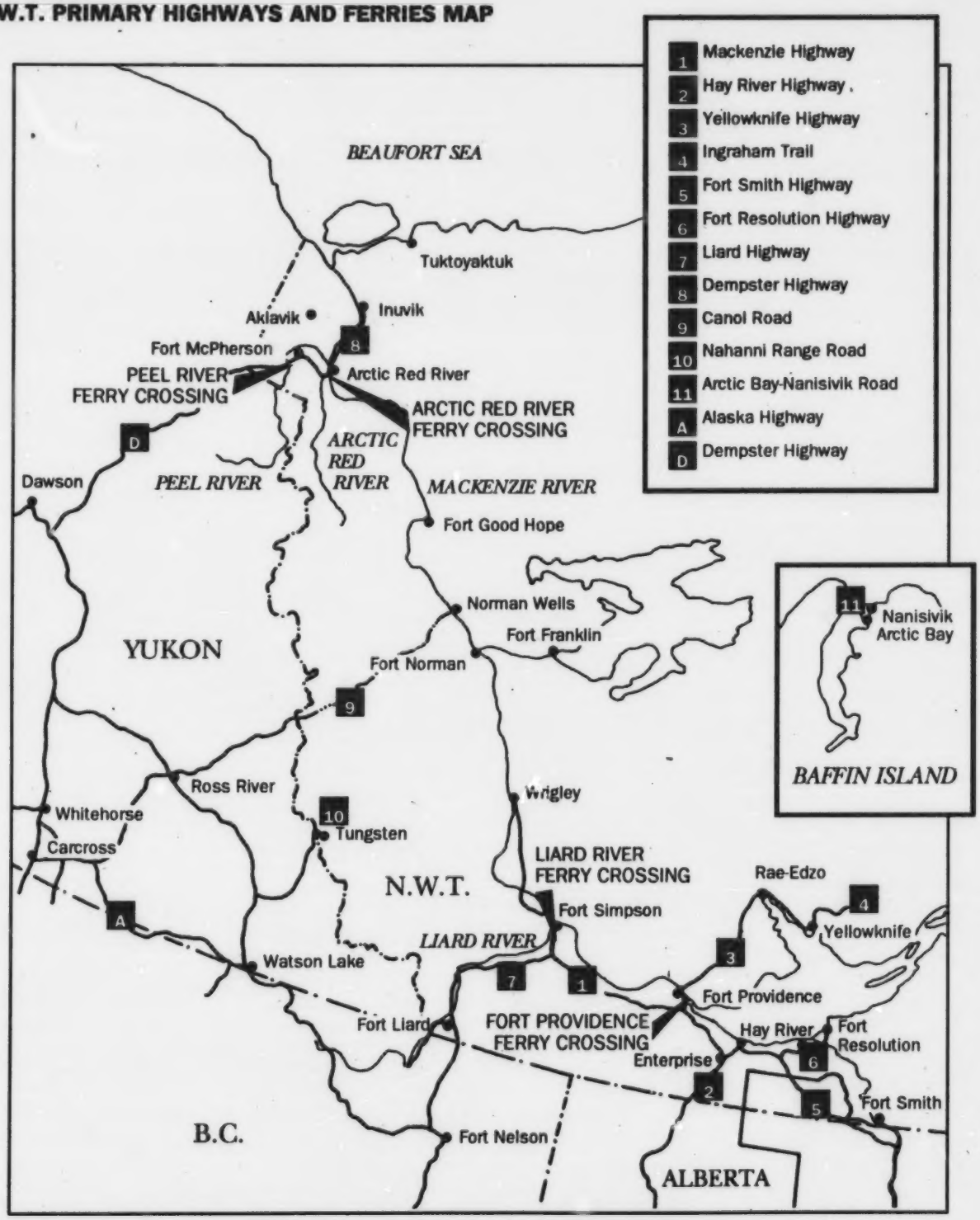
Figure 17

NORTHWEST TERRITORIES HIGHWAYS DATA

Length of road:	Paved or sealed	250 km
	Surface-treated	320 km
	Gravel	1680 km
Sub-total all-weather roads		2250 km
	Winter (public)	1200 km
Total		**3450 km**

Estimate of annual road usage in the Northwest Territories: approximately 200,000,000 vehicle-km

FIGURE 16
N.W.T. PRIMARY HIGHWAYS AND FERRIES MAP



Northern Roads Program. Major projects included granular base repairs on the Mackenzie Highway from km 0 to km 40 including crushing of materials for future year work, and paving of an overlay on the Mackenzie Highway from km 17 to km 33. Other minor projects included culvert replacements on the Mackenzie and Liard Highways and remedial repairs and engineering investigations on the Dempster Highway.

The 1987/88 Community Wharves Program saw completion of construction of a wharf at Baker Lake, start of construction of breakwaters at Arctic Bay and Pond Inlet, construction of a trench in the tidal flats at Iqaluit and an access road to a future wharf site in Chesterfield Inlet. The Community Wharves Program also included minor maintenance and completion of pre-engineering and design studies at a number of other communities. Total program expenditures for 1987/88 were $777,000.

Under the Community Granular Program, material was stockpiled in 9 communities, with engineering studies undertaken in an additional 15 communities. Total expenditures for 1987/88 were $815,000.

Under the Community Dust Control Program, various dust control measures were achieved in 24 communities. The program involved the purchase and supply of materials, application of dust control agents such as calcium chloride and calcium lignosulphonate and assessment and pre-engineering for future works. Total expenditures for 1987/88 were $684,000.

The Division also managed the design and construction of a variety of projects in various communities on behalf of the Department of Municipal and Community Affairs, under the Community Road Construction, Site Development, Land Development and Airports Capital Programs.

Highway Operations Division

Roles and Responsibilities

The Highway Operations Division maintains highways in the NWT to a standard that ensures safe and reliable inter-community travel, and provides enforcement services to ensure industry compliance with legislative requirements with respect to weights, dimensions, economic regulations and safety. The Division is located in Hay River, which is the central focal point of the NWT highway system.

Maintenance operations are divided into 14 geographic areas, known as beats. Two beats service the Dempster Highway, one maintains the Arctic Bay - Nanisivik Road on Baffin Island, and the other eleven are located in the southern Mackenzie area. The Fort Smith office also supervises maintenance of roads in the northern part of Alberta, leading to and within Wood Buffalo National Park.

In addition to the regular road maintenance activities, the Division undertakes other activities related to its main objective. These include minor construction tasks such as culvert replacement, gravel hauling and crushing, resurfacing, calcium chloride application for dust control, and pavement marking. These tasks are administered as contracts separate from the normal maintenance activities.

Winter road construction involves the opening of a road when sufficient snow has fallen to provide a good base, construction and removal of stream crossings where required, and continuing maintenance and patrol of the road during the operating season - normally from late December to the end of March each winter. Most of the winter roads provide access to communities remote from the all-weather road network, to which access otherwise is only available by boat or by air. Among these are Jean Marie River, Trout Lake, Lac La Martre and Rae Lakes, and (along the Mackenzie River north of Wrigley as an extension of the all-weather Mackenzie Highway) Fort Norman, Norman Wells, and Fort Franklin.

Ice roads are constructed on the frozen surface of lakes and rivers, and require testing of natural ice thickness, as well as the installation of traffic control devices, and plowing and patrolling while the road is open. These roads are also generally open to the public from late December to the end of March each winter. Included in this category are the roads from Inuvik to Tuktoyaktuk and Aklavik.

This Division also includes an Equipment Section with responsibility to manage the Divisional fleet of construction and maintenance equipment, as well as to undertake equipment repairs at its Hay River workshop. This facility provides a warehouse function for various maintenance items, including equipment parts, signs, and tools.

The Highway Transport Operations Section of the Division is responsible for the management and operation of three Government of the Northwest Territories weigh scales at Enterprise, Fort Liard and Inuvik.. This section enforces the Motor Vehicle Act and Regulations, through the weigh scales and mobile highway patrols.

Highlights

The Division's objectives are achieved through the use of contract and own-force staff. Statistical highlights of the operations and maintenance activities are shown in the following Figure 18. Seven of the fourteen maintenance beats are now handled by contract forces and a training program was initiated on the Wrigley section of the Mackenzie Highway to enable this beat to be contracted when the highway is opened.

The unseasonably stormy weather in the South Mackenzie area in the summer of 1987 resulted in severe pressure on the maintenance crews, requiring round-the-clock efforts in early July, to protect and restore the Liard and Mackenzie Highways in the Fort Liard, Fort Simpson, and Fort Resolution areas.

The Wrigley maintenance camp was completed, and the old Jean Marie camp at the Liard and Mackenzie Highways junction was removed. Several buildings from the Jean Marie camp were relocated to Wrigley, while the workshop was moved to the ferry support camp at the Liard River.

The late onset of freeze-up in early 1988 reduced the period for many winter roads by three to four weeks, causing a few anxious moments for some communities dependent on these roads for resupply.

Winter road alignment improvements were made on the Mackenzie Highway between Wrigley and Norman Wells, as well as on the road to Fort Franklin, and several new bridges were purchased for installation on difficult stream crossings.

Cyclical gravel resurfacing was carried out on sections of the Liard and Yellowknife Highways last summer, and extraordinary maintenance was required on the Ingraham Trail east of Yellowknife due to unanticipated heavy loads from the reopened Ptarmigan Mine.

In the compliance and enforcement area, this Division participated in discussions on National Safety Code requirements for motor carriers. This will establish procedures for commercial vehicle inspections, hours of service regulations and administration, facility audits, and carrier fitness assessments. Enforcement personnel were provided with training on compliance procedures and a new Transport Compliance Procedural Manual was drafted.

FIGURE 18
HIGHWAY OPERATIONS HIGHLIGHTS

	Private	Own-Forces	Total
Number of beats	7	7	14
All-weather road (km)			
asphalt	94	188	282
gravel	1,010	1,209	2,219
Seasonal road (km)			
winter road	473	362	835
ice road	280	122	402
Total (km)	1,857	1,881	3,738
Maintenance cost/km ($)	4,638	4,193	4,415

	Volume/Length	# of Contracts	Total Cost
Gravel crushing	87,400 m^3	3	$ 1,582,000
Gravel resurfacing	334,100 metric tons/376.5 km	7	1,542,000
Calcium chloride application	1,123 metric tons/340 km	2	459,600
Pavement marking	275 km	1	34,000
Total Operations and Maintenance Budget			**$ 16,545,000**

Marine Operations Division

Roles and Responsibilities

The Marine Operations Division has its headquarters in Yellowknife with field Superintendents based at Fort Simpson and Fort McPherson. It is responsible for the operation and maintenance of ferries at river crossings on the highway system for the safe and convenient passage of vehicles and pedestrians. Ferries are located at the Yellowknife Highway crossing of the Mackenzie River at Fort Providence, the Mackenzie Highway crossing of the Liard River at Fort Simpson, the Dempster Highway crossing of the Mackenzie River at Arctic Red River, and the Dempster Highway crossing of the Peel River at Fort McPherson. A fifth ferry is expected to begin operating in the near future at the Mackenzie Highway extension crossing of the Mackenzie River at Camsell Bend between Fort Simpson and Wrigley.

Highlights

The fleet carried 73,496 vehicles of all types and 165,485 passengers during 1987/88. Approximately 35 people were employed including both contracted ferry crews and management staff. Further details are provided in Figure 19.

Figure 19
FERRY HIGHLIGHTS

River Crossing/ Community	Mackenzie River/ Fort Providence	Liard River/ Fort Simpson	Peel River/ Fort McPherson	Mackenzie River/ Arctic Red River	Total Carried
Crossing Distance	1 km	0.85 km	0.43 km	1 km	-
Vessel	Merv Hardie	Johnny Berens	Abraham Francis	Hay River #1/ Barge 379-6	
Capacity					
Passengers	40	35	34	35	-
Automobiles	10	8	8	12	-
Gross Tonnage	262.77 tons	104.65 tons	128.22 tons	311.68 tons	-
Operating Season[1]	mid-May to Jan/Feb	mid-May to October	mid-June to mid-October	mid-June to mid-October	-
Operating Hours	6 am to 12 pm	8 am to 12 pm	9 am to 1 am	9 am to 1 am	-
1987/88 Season					
Passengers	**68,460**	**26,530**	**27,267**	**43,228**	**165,485**
Vehicles	**33,211**	**12,461**	**9,736**	**18,088**	**73,496**

[1] NOTE: Depending on ice conditions

Appendices A - C

APPENDIX A
CONSTRUCTION, MAINTENANCE
AND SERVICE CONTRACTS

HEADQUARTERS

Location - Project General Contractor[1]	Amount ($)
YELLOWKNIFE	
Various (144) Contracts Less Than $ 1,000 Various (N)	69,196
Various (24) Contracts Less Than $ 1,000 Various (S)	12,163
As & When Alarm Repair/Service Arctic Alarm (N)	12,020
As & When Alarm Monitoring Arctic Alarm (N)	3,815
Water Delivery Bromley & Sons (N)	4,449
Construct Staff House Deck - Unit 119 Capital City Construction (N)	7,490
Keewatin Building - 2nd Floor Capital City Construction (N)	17,460
Ceiling - Sir John Franklin School Capital City Construction (N)	22,790
Repair Staff House Fire Damage - Unit 166 Capital City Construction (N)	23,970
As & When Carpentry Capital City Construction (N)	178,675
Staff House Carpeting: 5504 - 47 Street Carpet Outlet (N)	3,598
Replace Flooring - Staff Housing Carpet Shoppe (N)	138,000
As & When Plumbing/Heating Service Circle Mechanical (N)	72,282
Legislative Assembly Renovations Clark-Bowler Construction (N)	143,780
As & When Carpeting Classic Flooring (N)	42,812
Replace Flooring - 211 Rockhill/17 Burwash Classic Flooring (N)	2,073
As & When Computer Servicing Computer Centre (N)	5,000
Community Gym Foundation Diamond "D" Contracting (N)	41,773
Renovations - Legislative Assembly Basement Diamond "D" Contracting (N)	128,880
Principal's Office - SJFHS Diamond "D" Contracting (N)	32,353
As & When Service/Repairs Discovery Ford (N)	7,771
Interior Cleaning - Unit 166 Dunrite Cleenitors (N)	4,418
U.P.S. Maintenance - Hodgson Bldg. Exide Electronics (N)	5,199
Bus Rental (Royal Visit) Frame & Perkins (N)	1,800
Electrical Upgrade Golden Electric (N)	5,311
As & When Auto Body Repair Hak's Auto Body (N)	2,734
Screen Fence (Royal Visit) Hovat Construction (N)	12,060
Renovations - Tapwe Building Hovat Construction (N)	11,389
As & When Electrical Service Huffman Electric (N)	94,461
As & When Electrical Service Independent Electric (N)	47,616
As & When Boat Motor Repair Indy Sports (N)	1,096
WACHO Conference Material Inkit Graphics (N)	1,900
Production of Energy Management Booklets Inkit Graphics (N)	12,970
Typesetting, Printing Inkit Graphics (N)	3,129
Cleaning - Cunningham Building Jim's Cleaning (N)	11,724
Production of Crests Jofran Enterprises (N)	1,700
As & When Signage Jofran Enterprises (N)	6,411
As & When Gas Fitting JSL Mechanical (N)	30,000

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

As & When Sprinkler Repairs JSL Mechanical (N)	9,817
Cleaning - Keewatin Building Lang Trinh (N)	7,080
Apple Computer Repair Micro Age (N)	1,500
Upgrade Macintosh Computer System Micro Age (N)	1,740
Office Renovations - 1st Floor NUP Ninety North Construction (N)	40,311
Paging System Maintenance Northern Comm. & Navig. (N)	1,316
As & When Radio Repairs Northern Comm. & Navig. (N)	1,962
Courthouse Blinds Northern Interiors (N)	1,296
Painting - Staff Housing Northern Painting (N)	41,300
Painting - Sir John Franklin School Northern Painting (N)	39,113
Painting - Akaitcho Hall Northern Painting (N)	22,130
Cleaning - Renewable Res. District Office Northwest Cleaning (N)	4,642
Annual Report Typesetting Outcrop Ltd. (N)	4,960
As & When Painting Paint North (N)	74,065
As & When Welding Paul Brothers Welding (N)	17,723
YCC Renovations - Phase III PCL Constructors Northern (N)	2,532,906
Office Renovations - 6th Floor Laing Building PCL Constructors Northern (N)	93,313
Office Renovations - 6th Floor Courthouse PCL Constructors Northern (N)	357,373
Handrail Painting Rainbow Painting (N)	1,100
Renovations - Toponomy Office - PWNHC Reg Lafleur Const (N)	5,538
Landscaping - PWNHC Robinson's Trucking (N)	16,754
Fire Extinguisher Installation Saftner Safety (N)	3,973
Bunkhouse Renovations Savaktuat Co-op (N)	18,716
Sound Attenuation - Lahmridge Tower Scorpio Developments (N)	58,000
Storage Shed/Access - SJFHS Scorpio Developments (N)	20,550
Minor Renovations - 5th Floor YK Centre Scorpio Developments (N)	9,525
Painting - Various GNWT Units Superior Painting (N)	25,825
Painting - Unit 166 Superior Painting (N)	6,800
As & When Glass Repairs Territorial Glass (N)	24,000
As & When Locksmithing Territorial Lock & Safe (N)	6,726
As & When Appliance Repairs Territorial Refrigeration (N)	13,301
As & When Commercial Refrigeration Service Territorial Refrigeration (N)	34,559
As & When Electric Motor Repair Territorial Rewind (N)	14,463
Pac Poles - 5th Floor Laing Building Top Electric (N)	2,147
As & When Snow Clearing Two-Way Enterprises (N)	25,919
Water/Sewer Repairs Two-Way Enterprises (N)	19,319
Parking Lot/Road Maintenance Two-Way Enterprises (N)	27,671
Roof Repairs - SJFHS & Akaitcho Hall Unico Construction (N)	14,520
As & When Auto Body Repairs Yellowknife Auto Body (N)	5,778
As & When Windshield Repairs Yellowknife Auto Body (N)	4,451
Water Delivery - Dettah School Yellowknife 'B' Band (N)	6,825
As & When Automotive Repairs Yellowknife Motors (N)	19,125
Video Slide Presentation YK Films (N)	45,000
Air Tanker Base Northwest Electric (N)	19,361
Project Management Seminar YK Inn (N)	5,000
Display Lighting Ainsworth Electric (S)	3,000
Roofing Retrofit Program Alberta Research Council (S)	2,500
Security System Service/Inspections Chubb Security (S)	1,650
Transport Enforcement Training Fraser Valley College (S)	10,550
As & When Insulation Service G & E Insulation (n)	1,037
Service & Repair Computer Hewlett-Packard (S)	7,000
Building Controls Maintenance Honeywell (S)	9,500
Course HRAI (S)	22,500
Project Management Seminar Instit. for Research & Const. (S)	4,000
Cleaning - Mine Rescue Station Irven Enterprises (n)	1,800
CPS Maintenance - Hodgson Building Jo-Ad Industries (S)	2,226

NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Systems Controls - Hodgson Building	
Johnson Controls (S)	1,824
Sewage Pumpout	
Kavanaugh Brothers (n)	8,670
Mechnicial Inspecting	
Lower Arctic Holdings Ltd. (S)	45,000
Display Panels	
McMurray Stone Fixtures (S)	1,870
Model Pile Tests	
National Research Council (S)	15,000
Repairs to Survey Equipment	
Norman Wade (S)	1,100
Service & Repair Blueprint Machine	
Norman Wade (S)	1,500
Supply & Delivery of Ammonia	
Northwest Transport (S)	7,000
Translate Manuscript	
Puulik Translations (N)	6,525
Pest Control	
PCO Services (S)	1,505
Production of Posters	
Pozden Graphics (S)	20,000
Presentation for Construction Claims Seminar	
Revay Associates (S)	4,500
As & When Elevator Maintenance/Repairs	
Schindler Elevator (S)	4,862
Project Management Seminar	
Wayne Watson (S)	2,000
Colour Photographic Enlargement	
Western Display (S)	6,000
Sand & Repair Banner	
YK Signs & Art (n)	1,100
As & When Front End Wheel Alignment	
YK Motors (N)	2,500
Boat Launch Improv. - Long/Prelude/Reid Lakes	
Two-Way Enterprises (N)	119,526
Mobile Radio Rentals	
Northern Comm. & Navig. (N)	1,300
Bridge Repairs	
Sub-Arctic Welding (N)	3,860
Lease of Vehicles	
YK Motors (N)	79,210
Project Sign Fabrication	
Inkit Graphics (N)	1,550
Project Signs	
Inkit Graphics (N)	1,140
Project Signs	
Inkit Graphics (N)	1,140
Rental of Conference Facilities	
YK Inn (N)	1,737
Vehicle Rental	
Ted's U Drive (N)	9,450
As & When Heavy Equipment Rental	
Two-Way Enterprises (N)	30,000
As & When Safety Glass/Windshield Replacmnt	
Clearview Auto Glass (N)	1,500
As & When Welding Repairs	
Back Bay Welding (N)	2,500
As & When Tire Repairs	
Westown Tire (N)	1,500
Supply & Delivery of Water	
Bromley & Sons (N)	2,500
Photomosaic Preparation & Production	
Thompson Underwood (N)	10,604
As & When Mobile Radio Repairs	
Northern Communications (N)	3,000
Garbage Pickup	
Salvation Army (N)	1,200
As & When Keylock Pump Repairs	
Air Northwest (N)	2,000
Crushing - Hwy #3	
Robinson's Trucking (N)	737,500
Clear Brush from Highway Right-of-Way	
Dettah 'B' Band (N)	18,750
Resurfacing	
Robinson's Trucking (N)	4,875
Mechanical Repairs & Towing	
Discovery Ford (N)	3,000
As & When Mechanical Repairs	
Delta Ford (N)	2,000
Truck Rental	
Age Automotive (n)	5,100
Software Support Agreement	
Hewlett-Packard (S)	1,344
Service & Repair Blueprint Machine	
A.M. Brunning (S)	4,000
Repair Blueprint Machine	
A.M. Brunning (S)	1,088
Sewage Pumpout	
Kavanaugh Brothers (n)	2,000
Lease of Vehicle	
YK Motors (N)	6,600
Lease of Vehicle	
YK Motors (N)	4,800
Lease of Van	
YK Motors (N)	4,800
As-Fitted Drawings - M.V. Louis Cardinal	
Marcon Marine Consultants (N)	18,000
Computer Equipment Rental	
The Computer Centre (N)	14,000
Miscellaneous Highway Projects	
Arctic Alarm (N)	16,290
Engine & Machine Repairs - Various Ferries	
Coopers Equipment Repair (N)	24,751
Liferaft Inspections	
Norm's Building Supplies (N)	3,945
Recharge Fire Extinguishers - Ferries	
Norm's Building Supplies (N)	2,950
Plumbing & Heating Repairs - Ferry Camps	
Tundra Plumbing & Heating (N)	14,693
Electrical Service & Repairs - Ferry Camps	
Davic Ltd. (N)	18,850

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Rental of Trucks - Ferries Delta Ford (N)	7,451
Diving Services Slave Divers Survival Equip. (N)	4,969
Rental of Topcon FC-1 Data Collector Norman Wade Co. (S)	3,900
Mobile Drilling Equipment Midnight Sun Drilling (S)	65,000
Photography of Launch - M.V. Louis Cardinal B. Callow (S)	1,000
Marine Drawings - M.V. Louis Cardinal Robert Allan Ltd. (S)	19,500
Develop Stability Data - M.V. Louis Cardinal Marcon Marine Consultants (S)	5,000
Elec. Trouble Shooting - M.V. Louis Cardinal Service Electric (S)	6,120
Painting - 6 Warning Signs YK Signs & Art (n)	3,540
Service & Repair Controls - Ferries Kobelt Manufacturing (S)	5,200
Service Fire Fighting Equipment Borstad Welding (N)	5,000
Service/Repair Steering Equipment - Ferries Wagner Engineering (S)	13,000
Repairs to Overhead Doors Hovat Construction (n)	2,000

FORT SMITH REGION

Location - Project General Contractor[1]	Amount ($)
VARIOUS	
Various (34) Contracts Less Than $ 1,000 Various (N)	16,633
Various (7) Contracts Less Than $ 1,000 Various (S)	3,410
Installation of Non-Directional Beacons Scorpio Developments (N)	274,000
Repairs to Fuel Storage Facilities NIS Construction (S)	10,201
Mowing Territorial Land Use Cons. (N)	48,000
Crushing & Stockpiling - Hwy #5 Rowe's Construction (N)	299,940
Resurfacing Hwy #5 Lloyd Hanson Trucking (N)	21,000
Sway Bracing Repair - Buffalo River Bridge King's Welding (N)	8,000
Transporting Vessels & Barges S&T Enterprises (N)	25,000
Wallace Creek Bridge Repairs - Hwy #1 Aljon Holdings (N)	1,650
Dozer Rental - Hwy #1 Robinson's Trucking (N)	4,850
Lease of Vehicle - Hwy #1 Kingland Ford (N)	4,293
Lease of Vehicle - Hwy #1 Kingland Ford (N)	4,293
Crawler Tractor Rental - Hwy #1 Carter Industries (N)	3,750
Crush & Stockpile Limestone Bedrock - Hwy 1 Robinson's Trucking (N)	1,081,250
Culvert Replacement - Hwy #1 Stan Dean & Sons (N)	189,650
Culvert Replacement - Hwy #1 Beaver Enterprises (N)	55,979
Crushing - Hwys 1/7 Robinson's Trucking (N)	1,025,000
Backhoe Rental Two-Way Enterprises (N)	3,960
Culvert Replacement - Hwy #3 (7 Sites) Beaver Enterprises (N)	224,464
Granular Investigation - Blue Fish Creek Stan Dean & Sons (N)	11,047
Gravel Resurf-Calcium Chloride Zones-Hwy 3 Carter Industries (N)	29,561
Rental of Traffic Light Curry Construction (N)	1,000
Rental of Backhoe Rowe's Construction (N)	18,000
Drainage Construction Rowe's Construction (N)	20,133
Crushing - Hwy #5 Robinson's Trucking (N)	109,850
Drainage Construction - Hwy #5 Rowe's Construction (N)	84,081
Crushing, Hauling & Stockpiling - Hwy #5 Stan Dean & Sons (N)	597,380
Hauling of Rip-Rap W. Burrill & Sons (N)	2,200
Rental of D6 Cat Beaver Enterprises (N)	6,000
Equipment Rental Robinson's Trucking (N)	10,000
Culvert Replacement - Hwy #7 Beaver Enterprises (N)	62,527
Equipment Rental - Hwy #5 Stan Dean & Sons (N)	5,401
Ditching - Hwy #5 Five Star Water Hauling (N)	2,200
Traffic Counting: Hwys 1 - 7 Bo Mar Enterprises (N)	19,947
Emergency Grade Repair - Liard Highway Beaver Enterprises (N)	193,300
Gravel Haul - Liard Highway Rowe's Construction (N)	240,000
Sign Painting - Liard/Mackenzie Highways Inkit Graphics (N)	1,550
Hauling of Rip Rap - Poplar River Area W. Burrill & Sons (N)	3,300
Grading & Drainage - Sandy Lake Access Road Five Star Water Hauling (N)	35,769

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Investigation & Testing - Wallace Cr. Bridge	
Rowe's Construction (N)	5,000
Depth Sounding	
Thompson Underwood (N)	13,000
Granular Base & Asphaltic Surface - Hwy #4	
Curry Construction (N)	697,880
Gran. Base/Single Asphalt Treatment - Hwy 5	
Carmacks Construction (S)	696,640
Cold Mix Pulverization/Granular Base-Hwy 1	
Everall Construction (S)	817,212
Supply & Application of Calcium Chloride	
General Chemical (S)	624,594
Claim Review	
R.J. Genereaux & Associates (n)	1,600
Asphaltic Concrete Paving	
Everall Construction (S)	2,626,672
Rental of Backhoe	
Carter Industries (n)	15,120
Reconstruction - Hwy #3: Km 239.4-245	
PCL Civil Construction (n)	1,200,690
Rental of Nuclear Density Gauges	
Hoskins Scientific (S)	12,000
Hydraulic Excavator Rental	
Stan Dean & Sons (N)	81,500
Water Delivery/Sewage Pickup - Ferry Camp	
Keith's Water Service (N)	1,000
Supply Air Bags - Liard Ferry	
Northern Arctic Shipbuilders (N)	4,000
Depth Sounding Equipment Rental	
Kingland Ford (N)	1,400
Printing of Information Sheets	
H&H Printing Services (N)	1,200
Silkscreened Display Panels - Visitors Centre	
Inkit Graphics (N)	4,200
Visitors Centre Renovations	
Morin & Sons (N)	10,540
Trail Clearing	
Soo Construction (N)	17,980
Collection of Items - Visitors Centre	
Soo Construction (N)	14,946
Visitors Centre Carpeting	
Kozy Karpets (N)	6,745
Supply/Install Track Lighting & Elect. Outlets	
Kiwi Electric (N)	5,750
Crushing and Stockpiling - Highway 5	
Rowe's Construction (N)	40,000
Load, Haul & Stockpile - Highways 1/5	
Stan Dean & Sons (N)	12,500
Tandem Truck Rental	
Lirette's Trucking (N)	6,000
Crushing - Highways 5/6	
Rowe's Construction (N)	358,540
Erect Overhead Clearance Signs for Bridge	
Stan Dean & Sons (N)	1,750

DETTAH

Dust Control Program	
Robinson's Trucking (N)	23,556

EDZO

Structure Stabilization	
Bernie's (N)	61,000
Excavation and Backfill	
Ritchie Excavation (N)	1,564
Vehicle Mechanical Work	
Yellowknife Motors (N)	1,312
Water Main Repairs	
Robinson's Trucking (N)	6,842
Fire Observ/Lookout Tower /Living Quarters	
Klein Construction (S)	78,207
Water Delivery	
Keith's Water Service (N)	3,500
Grass Mowing	
Bo Mar Enterprises (N)	49,835
Supply Premix Asphalt Material	
Everall Construction (S)	28,000
As & When Scale Calibration	
Pacific Industrial Scales (S)	3,500

FORT LIARD

Wiring - Weigh Scale	
Kiwi Electric (N)	5,490
Pile Test	
Bernie's (N)	3,300
Install Piles - Highway Scale	
Bernie's (N)	20,444
Garbage Pickup - Gov't Bldg.	
Fort Liard Band Council (N)	2,428
Renovations to P.O.L. Tank Farm	
Beaver Enterprises (N)	37,933
School Mechanical System Inspection	
Hope's Plumbing & Heating (N)	7,000
Highway Weigh Scale	
Pacific Independent Scale Co. (S)	3,300
Highway Scale	
Pacific Independent Scale Co. (S)	12,685
Small Engine Repairs	
Arctic Small Engine Repairs (S)	1,990
Survey Assistants	
Hamlet of Fort Liard (N)	4,753
Rental of D7 Dozer & Water Truck	
Beaver Enterprises (N)	4,725
Land Development & Related Work	
Beaver Enterprises (N)	90,125
Electrical Repairs - Maintenance Garage	
Kiwi Electric (N)	14,650
As & When Heavy Equip. Operator & Labourers	
Cap Mountain Ventures (N)	32,000
Supply Drinking Water - Weigh Scales	
Fort Liard Hamlet Council (N)	2,400

NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Camp Construction - Ferry Crossing W. Burrill & Sons (N)	1,250
Water Delivery - Ferry Crossing John Rowe (N)	2,600
Electrical Servicing - Ferry Crossing Kiwi Electric (N)	16,000
Lease D8 Cat - Ferry Crossing Stan Dean & Sons (N)	2,098
Garbage Disposal - Weigh Scales Fort Liard Hamlet Council (N)	1,019
Camp Construction - Ferry Crossing ML Const. & Woodworking (n)	44,974

FORT PROVIDENCE

Recreation Centre Electrical Connection Northland Utilities (N)	4,000
Janitorial Service - Area Trailer, Sett. Office Digaa Enterprises (N)	6,900
Provision/Management of Municipal Services Ft Providence Hamlet Council (N)	55,611
Granular Investigation Snowshoe Inn (N)	3,400
Backfill Carter Industries (N)	1,900
Gravel Pit Investigation Digaa Enterprises (N)	2,500
Commercial Accommodation Snowshoe Inn (N)	8,000
Supply Labour to Remove Fence Hamlet of Fort Providence (N)	1,560
Supply Survey Assistants Hamlet of Fort Providence (N)	14,994
Grading of Town Roads/Haul & Spread Gravel Snowshoe Inn (N)	1,620
Rental of Hotel Room Snowshoe Inn (N)	4,000
Granular Materials Recoveries Hamlet of Fort Providence (N)	1,000
Weigh Scale Operators Hamlet of Fort Providence (N)	24,154
Rental of Tractor/Lowboy Snowshoe Inn (N)	1,575
Rental of Hotel Rooms Snowshoe Inn (N)	3,600
Rental of D7 Dozer Snowshoe Inn (N)	4,800
Access Road - Crushing Stan Dean & Sons (N)	81,518
Access Road - Grading & Drainage Rowe's Construction (N)	195,728
Land Development & Drainage Improvements Stan Dean & Sons (N)	130,598
Access Road - Gravel Haul Rowe's Construction (N)	455,900
Delivery of Drinking Water Pineview Gulf (N)	2,600
Meals & Accommodation Snowshoe Inn (N)	1,200
Mowing Digaa Enterprises (N)	47,000
Haul & Spread Water for Road Maintenance Michael's Contracting (N)	57,600
Hydro-Seeding Territorial Land Use Cons. (N)	4,500
As & When Carpentry Services Snowshoe Inn (N)	10,760
As & When Labour Services Digaa Enterprises (N)	14,844
Dredging - North/South Ferry Crossing Snowshoe Inn (N)	5,000
North Ferry Landing Repairs Robinson's Trucking (N)	32,000
Upgrade North & South Ferry Landings Snowshoe Inn (N)	4,500
Cutline Clean Up Digaa Enterprises (N)	6,000

FORT RESOLUTION

Janitorial Services for Office Building Deninoo Community Council (N)	2,024
Provide Topsoil, Gravel, Fill & Snow Removal Lirette's Trucking (N)	2,388
Fill Basement Lirette's Trucking (N)	3,300
Snow Removal Lirette's Trucking (N)	3,110
Road Improvements Deninoo Community Council (N)	4,000
Land Development Lirette's Trucking (N)	38,034

FORT SIMPSON

Re-Roof Office Building Unico Contractors (N)	6,690
Disconnect/Reconnect Air Cond. - Gov't Bldg. Territorial Refrigeration (N)	3,300
Walk-in Freezer Kiwi Electric (N)	16,785
Air Tanker Base & New Heliport Rowe's Construction (N)	407,324
As and When Vehicle Service & Repairs A&A Services (N)	3,491
Janitorial/Custodial Service - Office Building Cindy's Cleaning (N)	16,650
Install Freezer Equipment at LaPointe Hall Territorial Refrigeration (N)	3,674
Provide Lawn Cutting Territorial Land Use Cons. (N)	1,482
Janitorial Service - District Office Nogha Enterprises (N)	5,500
Snow Removal, Haul Dirt, Gravel & Landscape W. Burrill & Sons (N)	133,753

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Truck Rental	
Budget Rent-A-Car (N)	1,350
Engine Repairs - Ferry	
Coopers Equipment Repair (N)	4,497
Dozer Rental	
W. Burrill & Sons (N)	3,649
Rental of Vehicle	
A&A Services (N)	7,500
Rental of Pickup Truck	
A&A Services (N)	1,792
Rental of Truck	
Visa Truck Rentals (N)	1,800
Resurfacing Hwy #1 & Ft. Simpson Access	
Rowe's Construction (N)	37,800
Highway Maintenance (3 Yr. Contract)	
Rowe's Construction (N)	977,525
Equipment Rental	
S&T Enterprises (N)	4,500
Supply D5 Crawler Tractor - Ferry Crossing	
W. Burrill & Sons (N)	4,900
Supply of D6 & D8 Cat - Ferry Crossing	
Beaver Enterprises (N)	10,000
As & When Labour Services	
O'Rourke Construction (N)	12,240
As & When Carpentry Service	
O'Rourke Construction (N)	9,540
Rental of Backhoe	
Peter Cowie (N)	1,200

FORT SMITH

Guard Rail Welding	
Paul Bros. Welding (N)	3,000
Carpet Replacement	
Fitzgerald Carpeting (N)	6,200
Trailcross, River Ridge Renovations	
Monkman Plumbing & Htg. (N)	44,730
Appliance Repair	
Bell Rk. Dev. /Handyman Svc (N)	12,674
As & When Plumbing Repairs	
Frank's One Call (N)	18,888
Appliance Repairs - Freezers, Fridges, A/C	
Frank's One Call (N)	5,138
As & When Emergency Electrical Repairs	
Bell Rock Developments (N)	30,000
As & When Heating System Emergency Repairs	
Frank's One Call (N)	17,743
As & When Lock Repairs/Replacement	
John's Locksmith (N)	1,000
Janitorial Services - Staff Housing	
Spotey Cleaning (N)	4,000
Cust./Jan. Serv. - Reg. Off., Garage, AMO Off.	
Bronco Construction (N)	10,000
Grounds Maintenance - Staff Housing	
Bronco Construction (N)	6,993
Garbage Container Rental	
H&I Disposals (N)	1,344
Janitorial Service - District Office	
F.B.E. Janitorial (N)	6,125
Little Buffalo Falls Campground - Phase II	
Heron's Trucking (N)	50,420
Repair Glass & Screening - Gov't Buildings	
Muffaloose Glass (N)	16,493
Floor Covering Repair & Replacement	
Kozy Karpets (N)	23,743
Exterior Painting - Breynat Hall/Brown Hse	
Rainbow Painting (N)	32,900
Minor Works - JBT/PWK Schools	
B&M Contractors (N)	12,964
Garbage Container Rental	
J&M Enterprises (N)	4,704
Custodial & Janitorial Service - Reg. Bldg.	
Spotey Cleaning (N)	2,500
Custodial & Janitorial Service	
Spotey Cleaning (N)	12,000
Security Sysem - Breynat Hall	
D&D Electric (N)	9,500
Snow Clearing & Removal	
Heron's Trucking (N)	5,492
Nightwatchman Service	
Karnes Enterprises (N)	12,130
Garage Ventilation System - Thebacha Campus	
Frank's One Call (N)	24,625
Simulation Room Renovations - Thebacha	
B&M Contractors (N)	8,545
Interior Painting - Regional Admin. Building	
Northwest Painting (N)	32,347
Electrical Upgrade - Staff Houses	
D&D Electric (N)	18,800
Fire Centre Office Renovations	
Fabra Wall (S)	3,960
School Retrofit	
Standard Roofing (S)	409,956
As & When Pest Control Service	
PCO Services (S)	15,700
Pressure Weld Boilers	
Comstock International (S)	2,291
Rental of Hydraulic Excavator	
Carter Industries (N)	1,300
Paint Grader	
Kelly's Auto Body (N)	2,000
Repair Unit 15-021	
Kelly's Service Station (N)	3,680
Mowing	
Territorial Land Use Cons. (N)	46,303
Airbrake Training Course	
Arctic College (N)	1,650
Sand Investigation	
Five Star Water Hauling (N)	5,000

HAY RIVER

Supply & Install Winches	
Kingland Ford (N)	2,904

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Cost Consulting	
New Form Consulting (N)	3,300
Air Tanker Base Asphalt Paving	
Rowe's Construction (N)	51,620
Servicing Michigan 35 Loader and D4	
R. Angus (N)	13,100
As & When Small Gas Engine Repairs	
K&K Cycle (N)	2,066
Emergency Electrical Service	
Great Slave Electric (N)	37,728
Supply Topsoil, Gravel, Fill & Equipment	
Stan Dean & Sons (N)	4,618
Emergency Plumbing Service	
Monkman Plumbing & Htg. (N)	10,000
Garbage Container Rental	
Hay River Disposals (N)	8,304
Sewage Pickup - GNWT Buildings	
Keith's Water Service (N)	16,591
Water Delivery Service	
Keith's Water Service (N)	21,769
Janitorial Svc. - Courthse, Library, Mtce. Off.	
Bo Mar Enterprises (N)	22,764
General Repairs - Small Equipment	
The Sportsman (N)	4,500
As & When Vehicle Glass Replacement	
Territorial Glass (N)	3,299
Service and Repair Propane Equipment	
ICG Liquid Gas (N)	1,458
As & When Supply of Concrete	
Aljon Holdings (N)	2,887
Janitorial Service - Forestry	
Bo Mar Enterprises (N)	6,279
Water Delivery Service	
Hay River Dene Band (N)	7,787
As & When Vehicle Inspection and Repair	
Kingland Ford (N)	14,105
Vehicle Inspection, Service & Repair	
Kingland Ford (N)	15,000
Vehicle Inspection, Service & Repair	
Kingland Ford (N)	17,501
Vehicle Inspection, Service & Repair	
Kingland Ford (N)	15,000
Body Repairs - Truck	
Klassic Autobody (N)	1,271
Emergency Plumbing	
Monkman Plumbing & Htg. (N)	2,565
Site Development - Alexander Falls	
Rowe's Construction (N)	27,000
Snow Removal	
Hamilton Enterprises (N)	2,517
Frost Checks	
Bo Mar Enterprises (N)	7,353
Sanding & Resurfacing Gym Floors	
North of 60 Painting (N)	30,089
Insulation & Roofing - Adult Educ. Portables	
Unico Roofing Contractors (N)	22,700
Carpet Replacement - PA School	
Carpet Shoppe (N)	29,200
Struct. Foundation Repairs - St. Paul School	
Aljon Holdings (N)	10,530
Interior Painting - Forestry	
Bo Mar Enterprises (N)	1,300
Interior Painting - Weigh Scales	
Bo Mar Enterprises (N)	1,900
Community Gym	
Tu Cho Gha Construction (N)	855,263
Janitorial Services - Band Office	
Hay River Dene Band (N)	7,323
Maintenance Service - Courthouse Elevator	
Otis Elevator (S)	3,372
As & When Fire Extinguisher Testing & Refill	
Borstad Welding (N)	13,903
Repairs to Electric Motors, Pumps, Actuators	
B&B Electric (S)	10,874
Fire Alarm System Testing & Inspection	
Edwards Service Division (S)	4,250
Tenant Improvements - Gensen Building	
Pinckston Associates (S)	22,100
Equip Rental for Digging Test Holes	
Stan Dean & Sons (N)	4,000
Load, Haul & Place Sand	
Stan Dean & Sons (N)	31,000
Provision of Propane	
ICG Utilities (N)	2,000
Lease of Vehicle	
Kingland Ford (N)	11,000
Lease of Vehicle	
Kingland Ford (N)	11,000
Supply of Survey Assistants	
Tu Cho Gha (N)	2,000
Auger Rig, Labourers, Flagpersons, etc.	
Stan Dean & Sons (N)	3,500
Lease of Vehicle	
Kingland Ford (N)	3,600
Outfitting Engineer's Cabin - Louis Cardinal	
Great Slave Construction (N)	1,600
Lease of Vehicle	
Kingland Ford (N)	2,400
Provision of Backhoe & Operator	
Carter Industries (N)	4,200
Mobile Radio Rental	
Northern Comm.& Navig. (N)	2,500
Vehicle Lease	
Kingland Ford (N)	2,400
Vehicle Lease	
Kingland Ford (N)	2,400
Lease of Mark Boat	
Northern Transportation Co. (N)	36,000
Survey Assistants	
Tu Cho Gha Construction (N)	1,737
Hoe & Dozer Rental	
Stan Dean & Sons (N)	2,500

NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Stockpile Site Preparation Rowe's Construction (N)	13,231
As & When Laundering & Dryclean Coveralls Cleanitizing (N)	4,898
As & When Safety Glass Windshield Repair Territorial Glass (N)	5,000
As & When Reupholster & Recover Seats King's Custom Upholstery (N)	1,200
As & When Pilot Car Service Stan Dean & Sons (N)	10,000
Janitorial Services Bo Mar Enterprises (N)	6,216
As & When Vehicle Rental Kingland Ford (N)	38,687
As & When Rent of Graders & Grvl. Haul Eqpt. Rowe's Construction (N)	40,000
As & When Rental of Backhoes, Tractors, etc. Rowe's Construction (N)	30,000
Garbage Pickup and Sewer Pumpout Hay River Disposals (N)	1,500
As & When Propane Equipment Repairs I.C.G. Liquid Gas (N)	2,000
As & When Electrical Repairs Mackenzie Electric (N)	15,000
As & When Tire Recaps Tires North (N)	25,000
As & When Equipment Painting Klassic Autobody (N)	15,000
As & When Towing Kingland Ford (N)	2,000
Rental of Water Tank & Tractor Rowe's Construction (N)	1,440
Haul Water Tank Grimshaw Trucking (N)	1,890
Vehicle Rental Kingland Ford (N)	4,500
As & When Mobile Radio Repairs G.T. Electronics (N)	3,000
Repair Unit 23-133 Ferguson Supply (S)	5,000
Apartment Rental Mackenzie Place (n)	5,580
Room Rental Cedar Rest Motel (n)	8,000
Provision of Office Trailers P.T. I. Holdings (S)	9,850
Modifications to M.V. Louis Cardinal Riverton Weld & Fabrication (S)	59,445
Apartment Rental Mackenzie Place (n)	1,550
Fuel Injection Course R. Angus (n)	3,000
As & When Crankshaft Regrinding Gold Bar Engine (S)	2,000
As & When Fuel Injection & Air Induct Repair United Diesel (S)	4,000
As & When Cylinder Head Repairs Edmonton Cast Iron (S)	1,500
As & When Transmission & Valve Repairs, etc. Waterous G.M. (S)	4,000
As & When Radiator Repairs Western Radiator (S)	2,500
As & When Repairs-Tachograph /Vibracorder H. Ruhl Machinery (S)	3,000
As & When Maintenance of Traffic Counters Curlette Sales (S)	2,000
As & When Key Lock Pump Repairs Mullen Pump Service (S)	2,500
Hydraulic Components Repair N.L. Rucker (S)	2,500
Modify Brush Mower Weldco (S)	4,475
Service Hewlett-Packard Computers Hewlett-Packard (S)	2,000
Service & Repair Hoist Kaverit Steel & Crane (S)	6,000
Water Tank Repairs Peace Country Fabrication (S)	2,000
Install Liquid Propane Burners Superior Propane (S)	8,450

HAY RIVER RESERVE

Lot Development & Drainage Improvements Stan Dean & Sons (N)	26,402
Parking Area- School Rowe's Construction (N)	8,370

JEAN MARIE RIVER

Inspect Timber Piles - Jean Marie R. Bridge Rowe's Construction (N)	3,600
Garbage Pickup - Staff Housing Jean Marie Co-op (N)	4,160
Disassemble Building & Camp Clean-up Nogha Enterprises (N)	3,200
Gravel Site Clean-Up Settlement of Jean Marie R. (N)	1,000
Cleaning Settlement of Jean Marie R. (N)	2,000
Heavy Equipment Operator Settlement of Jean Marie R. (N)	9,500
Provision of Equipment & Supplies Settlement of Jean Marie R. (N)	1,260
Provision Of Heavy Equipment Operator Settlement of Jean Marie R. (N)	2,087
Survey Assistants Jean Marie Co-op (N)	4,680
Winter Gravel Haul Beaver Enterprises (N)	95,300
Stockpile & Site Clean-up Settlement of Jean Marie R. (N)	2,500

NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

LAC LA MARTRE

Inspect Fire Truck	
YK Motors (N)	2,500
Settlement Maintenance	
Hamlet of Lac La Martre (N)	4,186
Provision of Equipment	
Hamlet of Lac La Martre (N)	2,000
Supply Survey Assistants	
Hamlet of Lac La Martre (N)	2,000
Lot Development	
Hamlet of Lac La Martre (N)	48,750
Rental of Equipment	
Hamlet of Lac La Martre (N)	8,500
Winter Ditching - Airport Upgrading	
Two-Way Enterprises (N)	24,402

LADY EVELYN FALLS

Campground	
Northern Breed Log Builders (S)	22,200

NAHANNI BUTTE

Tap House Installation	
Monkman Plumbing & Htg. (N)	8,750

PINE POINT

Garbage Pickup - Matonabee & Galena Heights	
Five Star Water Hauling (N)	6,666
Janitorial Service - Admin. Building	
Taylor Janitorial (N)	4,200
Custodial & Janitorial Service	
Taylor Janitorial (N)	2,585
Snow Removal	
Five Star Water Hauling (N)	3,000
Room & Board	
Pine Point Hotel (N)	4,242

RAE

Mechanical Repairs	
Kingland Ford (N)	3,500

RAE - EDZO

Vehicle Inspection and Repairs	
J.B. Gas Bar (N)	9,552
Start-up/Shutdown/Repairs - Refrig. Equip.	
Territorial Refrigeration (N)	6,715
Minor Electrical Repairs	
Koyine & Associates (N)	4,504
Excavation of Backfill	
Hamlet of Rae-Edzo (N)	2,000
Sewer Main Replacement	
Volker-Stevin Contracting (n)	15,000
Testing Program	
Two - Way Enterprises (N)	1,500
House Rental	
Rae-Edzo School Society (N)	1,800
Binder Application	
Robinson's Trucking (N)	17,100
Repair to Slide Area	
Stan Dean & Sons (N)	22,562
Bearing Rehab. - Frank Channel Bridge	
Sub-Arctic Welding (N)	4,000
Repairs - Frank Channel Bridge	
Sub-Arctic Welding (N)	4,000
Survey Assistants	
Deninoo Community Council (N)	5,000
Road Construction	
Robinson's Trucking (N)	8,500
Survey Assistants & Scale Persons	
Hamlet of Rae-Edzo (N)	5,855
Bank Stabilization	
Robinson's Trucking (N)	7,675
Test hole Excavation	
Robinson's Trucking (N)	2,810
Site Cleanup	
Hamlet of Rae-Edzo (N)	1,650
Land Clearing	
Hamlet of Rae-Edzo (N)	7,500
Granular Material Recovery Program	
Hamlet of Rae-Edzo (N)	1,000
Car Rental	
YK Motors (N)	1,200
Winter Gravel Haul	
Everall Construction (S)	231,800
Geotechnical Investigation	
Robert Carroll (S)	3,200

RAE LAKES

Municipal Services - Government Buildings	
Rae Lakes Dene Band (N)	9,964
Supply, Cutting and Piling of Firewood	
Rae Lakes Dene Band (N)	7,090
Construct Firehall/Garage	
PCL Constructors Northern (N)	656,273

SNARE LAKE

Servicing Freezer	
Dechi Laoti Council (N)	1,350
Generator & Heating Service - School	
Dechi Laoti Council (N)	15,812
Convert Freezer Compressor to Electric	
Territorial Refrigeration (N)	8,600
Firewood	
Dechi Laoti Council (N)	22,100
Brush Clearing	
Dechi Laoti Council (N)	15,500
Supply of Survey Assistants	
Dechi Laoti Council (N)	5,000
Provision of Equipment	
Dechi Laoti Council (N)	4,000

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Supply of Survey Assistants	
Dechi Laoti Council (N)	6,000
Brush Clearing	
Dechi Laoti Council (N)	50,000
Air Photography	
Western Remote Sensing (S)	2,750
Digital Elevation Model	
Stewart-Weir & Co. (S)	3,815

SNOWDRIFT

Building Repairs - Labour Only	
East Arm Construction (N)	18,240
Settlement Office Cleaning	
Lutsel K'e Dene Band (N)	10,800
Shelving & Cupboards - Adult Educ. Centre	
North-Tech Construction (S)	1,870
Provision of Survey Assistants	
Lutsel K'e Dene Band (N)	3,500
Rental of Truck	
Lutsel K'e Dene Band (N)	5,500
Provision of Heavy Equipment Operators	
Lutsel K'e Dene Band (N)	15,000

TROUT LAKE

Rental of Equipment	
Carter Industries (N)	5,000
Stockpile Granular Material	
Carter Industries (N)	113,500
Equipment Rental	
Velies Mechanical & Welding (n)	60,000
Survey Assistants	
Trout Lake Lodge (n)	6,765
Provision of Heavy Equipment Operators	
Trout Lake Lodge (n)	18,000

Wrigley

Water Delivery - Staff Housing & Gov't Bldgs.	
Petanea Co-op (N)	15,351
Garbage Pickup - Staff Housing & Gov't Bldgs.	
Petanea Co-op (N)	6,701
Land Clearing - Site I	
Wrigley Dene Band Council (N)	5,500
Dismantle & Move Building (Vote 4/5)	
J.J. Construction (N)	8,600
Construct Concrete Pads (Vote 4/5)	
Aljon Holdings (N)	46,355
Move Highways Camp (Vote 4/5)	
Cooper Barging (N)	35,800
Haul Trailer from Jean Marie to Enterprise	
Pope's Co. (N)	4,560
As & When Plumbing	
Northland Plumbing (N)	4,800
Accommodation	
Bear Lodge (N)	6,000
Garage Lighting	
Kiwi Electric (N)	16,850
As & When Plumbing Services (Vote 4/5)	
Monkman Plumbing & Htg. (N)	7,000
Flooring (Vote 4/5)	
Carpet Shoppe (N)	8,472
Transportation (Vote 4/5)	
Grimshaw Trucking (N)	1,235

INUVIK REGION

Location - Project **General Contractor**[1]	**Amount ($)**

VARIOUS

Various (1) Contracts Less Than $ 1,000	
Various (S)	683
Parking Area - Dempster Highway	
D. Storr & Sons (N)	9,610
Airport Lighting Upgrade	
McDonald Brothers (N)	16,250
Carpet Replacement	
Fitzgerald Carpeting (N)	32,500
Interior Painting - Staff Housing	
Timberline Painting (N)	12,783
Repair & Evaluate P.A. System & Clocks	
Arctic Alarm (N)	1,142
Oil Burner Servicing	
Rocky's Plumbing & Heating (N)	25,000
Waterboy Operation Seminars	
Petwa Canada (S)	4,043
Fire Alarm Preventive Maintenance Program	
Edwards of Canada (S)	15,930
Supply, Deliver, Haulout Logs - Peel R. Ferry	
Anderson Mills (N)	3,750
Rental of Loader & Backhoe - Peel R. Ferry	
Norspan Construction (N)	21,000
Supply Backhoe - Peel River Ferry	
Stan Dean & Sons (N)	15,320
Sewage Systems-Peel/Arc. Red Ferry Camps	
BAT Construction (N)	38,112
Small Engine Repairs	
Pluim Contractors (N)	15,800
Supply & Applic. of Calcium Chloride - Hwy. 8	
General Chemical (S)	166,168
Rental of D6 Cat - Peel River Ferry	
Northern Backhoe Service (n)	1,200
Ferry Camp Security Checks-Peel/Arctic Red	
Herbert Firth (n)	1,500
Equipment Service & Repairs	
R. Angus (n)	18,900
Repair & Service Electronic Equipment	
Hemming Communications (n)	17,600
Backhoe Rental	
Inuvik Construction (N)	3,570

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

AKLAVIK

Residential Lot Development	
D. Storr & Sons (N)	88,546
Road Development	
Tatra Leasing (N)	28,800
Road Development	
Tatra Leasing (N)	51,810
Carpet Staff Houses	
BAT Construction (N)	4,854
Survey Helpers	
Hamlet of Aklavik (N)	1,960
Survey Helpers	
Hamlet of Aklavik (N)	1,250
Janitorial Service - Gov't Office	
Martha Arey (N)	7,600
Sandblast & Paint Waterboy	
Arctic Paint & Development (N)	9,372
Flooring Replacement - School	
Ultimate Floor Laying (N)	55,400
Recreation Complex	
Hovat/Cavan (S)	1,597,694
Dust Control Program	
Hamlet of Aklavik (N)	15,080
Granular Material Recovery Program	
Hamlet of Aklavik (N)	1,000

ARCTIC RED RIVER

Winter Gravel Haul	
Points North Transportation (N)	32,000
Tank Farm Relocation	
King's Welding (N)	439,534
Gymnasium	
Treeline Construction (N)	879,700
Supply Logs & Tables	
Arctic Red R. Inc. Band (N)	30,000
Road Construction	
North Star Service & Const. (N)	9,350
School Renovations	
Suna Likaa (N)	17,100
Firehall Construction	
Dowland Contracting (N)	249,065
Road Construction	
Tatra Leasing (N)	14,116
Band Office Painting	
Timberline Painting (N)	16,070
Fumigate House	
Pouilins, The Exterminators (S)	1,150
Gravel Haul	
Points North Transportation (N)	29,625
Clearing Granular Source	
Hamlet of Arctic Red River (N)	2,000
Ferry Camp Fencing	
Inuvik Construction (N)	19,340
Lease Pick-up Truck	
Delta Ford (N)	1,280
Haul DD Generator Set from Inuvik	
Points North Transportation (N)	1,800
Water Delivery	
Inuvik Inn (N)	2,500
Water Delivery	
Inuvik Inn (N)	3,000
Rental D7 Cat & Tractor	
Points North Transportation (N)	3,705
Welding Service & Repairs	
Peter's Welding (S)	8,800

COLVILLE LAKE

Survey Assistants	
Colville Lake Band (N)	1,563

FORT FRANKLIN

School Site Development	
Ft. Franklin Dene Dev. Corp. (N)	9,750
Tank Farm Expansion	
Breakaway Energy (N)	155,892
Land Development	
Ft. Franklin Dene Dev. Corp. (N)	52,972
Carpet Staff Houses	
Aram's Construction (N)	5,796
Janitorial Service - Gov't Office	
Ft. Franklin Dene Dev. Corp. (N)	4,400
Electrical Repairs	
Mississquoi Electric (N)	1,548
Gravel Pit Restoration	
Arctic Ice Builders (N)	2,500
Dust Control Program	
Hamlet of Fort Franklin (N)	13,000
Granular Material Recovery Program	
Hamlet of Fort Franklin (N)	1,500

FORT GOOD HOPE

Carpeting - Adult Education Centre	
Inuvik Carpets (N)	7,200
Road Upgrading	
Arctic Circle Enterprises (N)	35,110
Evaluation for Sewer Tanks	
Arctic Circle Enterprises (N)	3,664
Gravel Haul & Spread	
Arctic Circle Enterprises (N)	1,047
Flooring Replacement - School	
Ultimate Floor Laying (N)	33,533
Equipment Rental	
Arctic Circle Enterprises (N)	12,000
Equipment Rental	
Arctic Circle Enterprises (N)	10,000
Equipment Rental	
Arctic Circle Enterprises (N)	12,000
Equipment Rental	
Arctic Circle Enterprises (N)	10,000

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

FORT MCPHERSON

Water/Sewer System	
Stan Dean & Sons (N)	614,815
Recreation Complex	
Clark-Bowler Construction (N)	1,526,466
Log Harvesting - Nutuiluie Campground	
Fort McPherson Band (N)	20,000
Alterations - Nutuiluie Campground	
BAT Construction (N)	13,720
Water Metering Program	
Dowland Contracting (N)	10,580
School Alterations	
Banner Contracting (N)	12,975
Carpet Staff Houses	
BAT Construction (N)	5,198
Land Development	
D. Storr & Sons (N)	54,367
Janitorial Service - Gov't Office	
Edith Nerysoo (N)	14,031
Sandblast & Paint Clearwall Tank	
Arctic Paint & Development (N)	9,050
Electrical Repairs	
Davic (N)	4,635
Carpet Staff Housing	
Fitzgerald Carpeting (N)	5,950
Window Replacement	
Heater Bros. (N)	18,900
Replace Skirting - School	
Mackenzie Service & Const. (N)	18,368
Raise Houses & Install Sewer Tanks	
Suna Likaa (N)	20,100
Hamlet Office Painting	
Timberline Painting (N)	2,710
Gym Floor Replacement	
Ultimate Floor Laying (N)	44,338
Base Relocation	
Ft. McPherson Band Council (N)	6,500
Witness for Water Supply Litigation	
Campbell Ryder Engineering (S)	8,000
Vehicle Rental	
Avis Rental (n)	1,306
Vehicle Rental	
Avis Rental (n)	1,091
As & When Mechanical Repairs	
P.R.J. Mechanics (N)	5,200
As & When Backhoe Services	
Norspan Construction (N)	12,750
Tire Repairs - Ferry	
Fred Lennie's Enterprises (n)	1,000

FORT NORMAN

Intercepting Ditches	
Fort Norman Contracting (N)	35,000
Carpet Staff House	
BAT Construction (N)	5,569
Construct Road	
Fort Norman Contracting (N)	40,175
Land Development	
Fort Norman Contracting (N)	6,500
Land Development	
Fort Norman Contracting (N)	20,475
Survey Helpers	
Hamlet of Fort Norman (N)	1,458
Foundation Repairs	
Aram's Construction (N)	12,882
Mechanical Repairs	
Whiponic Wellputer (N)	26,328
Dust Control Program	
Fort Norman Contracting (N)	23,760
High Volume Air Technician	
Hamlet of Fort Norman (N)	1,200
Granular Material Recovery Program	
Hamlet of Fort Norman (N)	1,000

INUVIK

Grollier Hall Renovations - Phase III	
PCL Constructors Northern (N)	2,413,218
Arc. Coll. Sprinkler Piping Testing & Repairs	
Viking Fire Suppression (N)	32,550
Arc. Coll. Mech. Ren. & Asbestos Removal	
Rocky's Plumbing & Heating (N)	118,625
Arctic College Mechanical Renovation	
Rocky's Plumbing & Heating (N)	16,248
Supply Gravel - Chuk Park	
North Star Service & Const. (N)	4,800
Signs - Chuk Park	
Delta Construction (N)	3,625
Sign - Chuk Park	
Inkit Graphics (N)	2,000
Site Improvements - Chuk Park	
North Star Service & Const. (N)	11,927
Construction Storage Shed	
Mackenzie Service & Const. (N)	12,333
Construct Storage Units - Northern Lights	
BAT Construction (N)	3,850
Renovations - Renewable Resources	
BAT Construction (N)	1,565
Office Conversion - Ren. Res./Mack Travel	
Arctic Painting (N)	12,308
Chuk Park Alterations	
Inuvik Construction (N)	120,770
Construct Handicapped Facilities	
BAT Construction (N)	68,485
School Renovations	
Davic (N)	14,540
Arctic College	
BAT Construction (N)	9,958
Signs - Arctic College	
Inuvik Construction (N)	1,730
Signs - Arctic College	
Inkit Graphics (N)	1,226

[1]**NOTE:** **(N) - Indicates a registered northern business (n) - Indicates a non-registered northern business**
(S) - Indicates a business that does not qualify as a northern business

Renovations - Renewable Resources Lab	
Sealand Construction (N)	4,760
As & When Security	
Aardvark Security (N)	27,665
As & When Cartage	
Bellas Trucking (N)	29,548
Janitorial Service - Gov't Office	
Kleen Sweep (N)	11,770
Interior House Painting	
Arctic Paint & Development (N)	1,150
Interior House Painting	
Arctic Paint & Development (N)	1,060
Window Replacement	
Banner Contracting (N)	74,225
Install Tub Surrounds	
BAT Construction (N)	14,999
Auto Body Repair	
Delta Auto Body (N)	6,104
As & When Auto Body Repair	
Delta Auto Body (N)	10,000
Replace Floor Decking	
Laval Construction (N)	12,615
Repair R.H. Steps	
Laval Construction (N)	31,754
Interior Painting	
Husky Painting (N)	10,800
Replace Electric Hot Water Tanks	
Kirk Motors (N)	16,685
Supply & Spread Gravel	
North Star Service & Const. (N)	21,897
As & When Carpentry	
Sealand Construction (N)	30,000
School Lab Counter Repairs	
Sealand Construction (N)	11,550
Carpentry Repairs	
Suna Likaa (N)	2,973
Window Replacement	
Suna Likaa (N)	12,600
Renovate Building	
Suna Likaa (N)	48,916
Gravel Retainers	
Suna Likaa (N)	10,420
Window Washing	
Suna Likaa (N)	11,040
Interior Painting	
Timberline Painting (N)	21,053
Interior Painting	
Timberline Painting (N)	7,555
Interior Painting	
Husky Painting (N)	7,000
Interior Painting	
Husky Painting (N)	1,260
Interior Flooring	
Inuvik Carpets (N)	3,920
Air Tanker Base Communication Equipment	
Business Comm. Equipment (S)	2,771
Air Tanker Base	
Public Works Canada (n)	53,685
Lease Model 1038 Copier	
Xerox Canada (n)	4,657
Lease Model 1038 Copier	
Xerox Canada (n)	5,128
Lease Model 1020 Copier	
Xerox Canada (n)	1,143
Janitorial Service - Staff Accommodation	
Krystal Klean (n)	12,880
Janitorial Service - Forestry	
Krystal Klean (n)	6,250
Janitorial Service - Gov't Office	
Krystal Klean (n)	14,850
Lease Blueprint Copier	
First City Cap. Leasing Div. (S)	1,364
Sprinkler Testing & Repairs	
Viking Fire Suppression (S)	37,500
Pressure Wash Row Housing	
Volker-Stevin NWT (n)	6,275
As & When Radio Repairs	
Hemming Communications (N)	2,000
As & When Equipment Rental	
Points North Transportation (N)	6,570
As & When Equipment Rental	
Mackenzie Service (N)	12,750
Supply & Application of Asphalt Oil	
Town of Inuvik (N)	5,510
Asphalt Tank Installation	
Tom Zubko Urethane Foam (N)	2,030
Fabrication of Snow Fence	
Suna Likaa (N)	24,000
As & When Heavy Equipment Rental	
Points North Transportation (N)	39,250
As & When Welding Repairs	
Bob's Welding (N)	2,000

NORMAN WELLS

Seepage Lake Sewage Treatment Facility	
Nahanni Air Services (N)	592,282
Office Renovations	
BAT Construction (N)	18,334
Carpet Staff Houses	
Aram's Construction (N)	10,222
As & When Cleaning	
L&H Cleaning (N)	22,045
Janitorial Service - Gov't Office	
L&H Cleaning (N)	3,195
Exterior Painting/Window Replacement	
Aram's Construction (N)	13,736
Window Replacement	
Heater Bros. (N)	17,250
Upgrade School Heating System	
Whiponic Wellputer (N)	1,753
Re-level Utilities	
Whiponic Wellputer (N)	6,168

[1]NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Refrigeration Repairs Whiponic Wellputer (N)	2,255
Repair Frozen Waterline Whiponic Wellputer (N)	1,091
Refrigerator Repairs Whiponic Wellputer (N)	1,780
Gas Line Excavation Carn Construction (N)	1,125
Gas Line Excavation Carn Construction (N)	1,048
Carpet Staff Houses BAT Construction (N)	7,084
Potable Water & Sewer Reg's Water Service (n)	12,500
Potable Water & Sewer Reg's Water Service (n)	9,920
Emergency Boiler Repairs HF Clark (S)	5,150

PAULATUK

Equipment Training R. Angus (n)	3,771
As & When Supply of Labour, Tools, Materials Hamlet of Paulatuk (N)	5,000

SACHS HARBOUR

Maintenance Training - New Backhoe Loader Kingland Ford (N)	2,500
Airport Lighting Upgrade Mississquoi (N)	8,250
Recreation Complex Clark-Bowler Construction (N)	1,468,750
Level & Insulate Flooring - Various Buildings Dowland Contracting (N)	34,900
Supply & Install Carpets Ultimate Floor Laying (N)	15,376

TUKTOYAKTUK

Exterior Lighting - School MacDonald Brothers (N)	7,500
Janitorial Service - Gov't Office Raymond Laundry Service (N)	11,000
Replace Carpet & Windows Dowland Contracting (N)	15,450
Replace Sewer Tank Volker-Stevin NWT (N)	7,500
Granular Material Recovery Program Hamlet of Tuktoyaktuk (N)	3,000

BAFFIN REGION

Location - Project General Contractor[1]	Amount ($)

VARIOUS

Fire Alarm Testing, Maintenance & Inspection Edwards Service Division (S)	27,920
Control System Preventative Maintenance Johnson Controls (S)	79,345

ARCTIC BAY

Survey Assistants Hamlet of Arctic Bay (N)	6,225
Dust Control Program Hamlet of Arctic Bay (N)	10,464
Survey Assistants Hamlet of Arctic Bay (N)	1,440
Soil Investigation Hamlet of Arctic Bay (N)	1,200
Drainage Work Hamlet of Arctic Bay (N)	34,070
Victor Bay Road Hamlet of Arctic Bay (N)	323,820
Relocation of Telephone Line Bell Canada (N)	7,000
Vehicle Rental Theo Kangok (N)	3,000
Provision of Equipment & Supplies Craig O' Entremnont (N)	2,600
Crushed Granular Product Arctic Tech Construction (S)	190,000

BROUGHTON ISLAND

As & When Repairs to Water Reservoir Hamlet of Broughton Island (N)	40,000
Repair & Maintenance of Diesel Generator Peel Engine Services (S)	20,000

CAPE DORSET

Recreation Complex Jomanic-Can/Island Equip. (N)	1,589,000
Modular Office Iravco Ind Housing (S)	84,166
Cleaning & Painting of Tank Farm Decron Coating (S)	74,775
Survey Help Hamlet of Cape Dorset (N)	1,997
Equipment Rental Island Equipment (N)	1,197
Relocation of Loop Building Island Equipment (N)	3,500
Equipment Rental Island Equipment (N)	2,250
Road "B" Construction Island Equipment (N)	99,975

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Telephone Line Relocation	
Bell Canada (N)	11,000
CLYDE RIVER	
GNWT Office Repairs	
Ninety North Construction (N)	37,500
Housing Retrofits	
Jomanic-Can (N)	275,539
Portable Classroom Renovations	
Jomanic-Can (N)	76,385
Dust Control	
Hamlet of Clyde River (N)	8,790
Survey Help	
Hamlet of Clyde River (N)	1,500
Land Development	
Hamlet of Clyde River (N)	27,206
Access Road - Dumpsite	
Hamlet of Clyde River (N)	37,650
GRISE FIORD	
Mechanical Work - Water Supply	
Universal Industries (S)	191,526
Tank Erection - Water Supply	
Norland Construction (S)	391,150
HALL BEACH	
Community Hall	
Tower Arctic (N)	918,110
Community Hall	
Tower Arctic (N)	426,812
Housing Retrofits	
Jomanic-Can (N)	138,751
Cement Haul	
Solomon Quantsiaq (N)	1,640
Supply Survey Assistants	
Hamlet of Hall Beach (N)	1,500
Road & Lot Construction	
Hamlet of Hall Beach (N)	37,415
IQALUIT	
Emergency Lighting - Schools	
Baffin Building Systems (N)	49,027
Brown Building Renovations	
Iqaluit Custom Framing & Fin. (N)	47,622
Happy Valley Land Development	
Iqaluit Custom Framing & Fin. (N)	47,900
Sewage Outfall	
Tower Arctic (N)	210,000
Handicapped Adults Group Home	
Ninety North Construction (N)	153,932
Partitioning - Nakasuk School	
Baffin Building Systems (N)	147,000
Gym Floor Repairs - Nakasuk School	
Ultimate Floor Laying (N)	60,367
Site Improvements - Fourplex	
Baffin Building Systems (N)	58,870
Oil Line Relocation - Arctic College	
Baffin Building Systems (N)	82,431
Courthouse Renovations	
Baffin Building Systems (N)	119,106
Oil-Fired Heating System Maint. & Repairs	
Baffin Building Systems (N)	69,275
Maint. of Fire Extinguishers & Cabinets	
A.V. Murphy (N)	8,000
As & When Carpentry	
Baffin Kamutauyait (N)	57,500
Electrical Installation Repr. Serv. As & When	
Brierre & Sons (N)	45,000
As & When Plumbing & Heating	
Baffin Building Systems (N)	75,000
As & Whe. Heavy Equipment	
Baffin Building Systems (N)	50,000
As & When Vehicle Repair	
Iqaluit Garage (N)	20,000
Interior Ceiling Repairs - Brown Rowhousing	
Brewster Arctic Eng. (N)	43,950
Snow Clearing, Sanding & Shovelling	
Baffin Building Systems (N)	129,900
Security Monitoring	
Best Cleaners & Contractors (N)	218,310
Cleaning - Government Buildings	
Northern Safety Services (N)	73,332
Supply Computer Program	
Native Women's Association (n)	1,350
Affirmative Action Upgrading	
Native Women's Association (n)	3,030
Arctic College Water & Sewer Servicing	
Sintra (S)	261,918
Staff House Roof Retrofit (18 Units)	
Standard Roofing (S)	264,750
Arctic College Water & Sewer	
Sintra (S)	246,050
Utilidor Upgrade	
Proinsul (S)	154,952
Exterior Painting - Nakasuk School	
Academy Enterprises (S)	40,836
Clean & Test Waterline from NCPC Plant	
A.P.I. (S)	64,600
Software Implementation	
Woods Gordon Consultants (S)	20,000
Equipment Rental for Beach Improvements	
Baffin Building Systems (N)	20,993
Equipment Rental for Beach Improvements	
Tower Arctic (N)	71,638
LAKE HARBOUR	
Road Construction	
Hamlet of Lake Harbour (N)	27,430
Firehall Expansion - Phase II	
Arctic Alert Construction (S)	65,800

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

MONTREAL

Baffin House	
R.W. Nichol Contracting (S)	50,297

NANISIVIK

Cleaning - Nanisivik Centre	
121702 Canada (N)	84,210
Dust Control Program	
Hamlet of Arctic Bay (N)	15,020

PANGNIRTUNG

Recreation Complex	
Tower Arctic (N)	1,553,500
New Primary School	
Tower Arctic (N)	2,145,000
Kekerton Historic Park	
Pangbuilt (N)	26,341
Visitors Centre	
Tower Arctic (N)	584,550
Powerline Installation - Reservoir	
NCPC (N)	52,416
Visitors Centre Display Cabinets	
Frobuild (N)	58,780
Reservoir Construction	
Tower Arctic (N)	1,180,207
Granular Investigation	
Canadrill (N)	34,500
Granular Investigation	
Hamlet of Pangnirtung (N)	1,380
Supply of Survey Assistants	
Hamlet of Pangnirtung (N)	2,000
Crushed Granular Product	
Construction Gely (S)	81,000
Materials Inspection	
Hanson's Materials (N)	26,589
Fire Alarm System	
Edwards Service Division (S)	19,890

POND INLET

Takijualuk School Roof Retrofit	
Unico Const. & Bond-A-Ply (N)	266,700
Curling Rink Addition	
Jomanic-Can (N)	443,000
House Renovations	
Narwhal Arctic Services (N)	101,235
Survey Assistants	
Hamlet of Pond Inlet (N)	3,967
Breakwater	
Canadrill (N)	191,815

RESOLUTE BAY

Office Retrofit	
Narwhal Arctic Services (N)	59,810
Water Tank Cover	
Narwhal Arctic Services (N)	32,800
Vehicle Maintenance & Repair	
Narwhal Arctic Services (N)	20,000

SANIKILUAQ

Diesel Generator Repairs & Maintenance	
Hewitt Equipment (S)	35,000
Residential Subdivision	
Hamlet of Sanikiluaq (N)	22,577
Dust Control Program	
Hamlet of Sanikiluaq (N)	9,180
Survey Assistants	
Hamlet of Sanikiluaq (N)	2,200

KEEWATIN REGION

Location - Project **General Contractor[1]**	**Amount ($)**

VARIOUS

Various (2) Contracts Less Than $ 1,000	
Various (N)	1,340
Crushed Granular Product	
Stan Dean & Sons (N)	989,720
Install Water Meters	
Kudlik (N)	50,417
Equipment Training	
R. Angus (N)	4,000

Arviat

Water Reservoir Fencing	
Clark-Bowler Construction (N)	49,900
Vehicle Maintenance	
Don's Sales & Services (N)	30,000
Dredge Water Lake	
E.P. Lumber Supply Airpt. Ser.	1,840
Gravel Haul	
E.P. Lumber Supply Airpt. Ser.	4,600
As & When Maintenance Services	
Leonard & Associates (N)	40,000
Supply & Install Toilets	
Leonard & Associates (N)	17,910
Install Cupboards - House #9	
Leonard & Associates (N)	8,300
Construct Handicapped Ramp in School	
Leonard & Associates (N)	5,620
Handicapped Washroom	
Leonard & Associates (N)	9,640
Computer Wiring	
Leonard & Associates (N)	4,685
Paint Tank Farm	
Polar Painting (N)	74,382
Renovations - House 18	
Sanajiit (N)	91,000
Room & Meals	
The Tugalik Inn (n)	10,000

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Water Reservoir Liner Samples Testing/Anal.	
Quality Monitoring Service (S)	3,880
Reservoir Exp. - Geotech - Membrane Liner	
Nilex Geotechnical (S)	449,400
Road Re-alignment	
Hamlet of Eskimo Point (N)	6,000
As & When Survey Assistants	
Hamlet of Eskimo Point (N)	2,626
Hiring High Volume Air Technicians	
Hamlet of Eskimo Point (N)	1,200
Land Development	
E.P. Lumber Supply Airpt. Ser.	161,035

BAKER LAKE

Fuel Storage Facility	
Kudlik Construction (N)	1,887,780
6 Bay Parking Garage	
Baker Lake Contracting (N)	417,354
Old Nursing Station Renovations	
Baker Lake Contracting (N)	168,120
As & When Maintenance	
Baker Lake Contracting (N)	54,998
Furnace Maintenance	
Baker Lake Contracting (N)	24,230
Raise & Level House #10	
Baker Lake Contracting (N)	4,500
Supply & Install Toilets	
Baker Lake Contracting (N)	33,500
Move & Level Houses	
Baker Lake Contracting (N)	57,490
Renovations - House #1	
Baker Lake Contracting (N)	51,681
Renovations - House #10	
Baker Lake Contracting (N)	58,000
Electrical Upgrade - House #10	
Baker Lake Contracting (N)	4,000
Repairs - Old Nursing Station	
Baker Lake Contracting (N)	28,177
Install Sewage Tank	
Norland Construction (N)	4,956
Gravel Haul	
S&K Construction (n)	4,800
Repairs to GNWT Vehicles	
Sigyamiut (N)	1,800
Pad in School	
S&K Construction (n)	3,640
School Roof Repairs	
Unico Contractors (N)	38,150
Fire Alarm Service & Repairs	
Edwards Alarm Systems (S)	16,000
Dust Control Program	
Hamlet of Baker Lake (N)	17,094
Crane Operator	
Curry Construction (N)	3,000
Wharf Construction	
Sigyamiut (N)	40,000
Wharf Construction	
Sigyamiut (N)	4,000
Truck Rental	
Baker Lake Contracting (N)	4,000
Crane Rental	
Sigyamiut (N)	8,000
Install Structural Steel	
Baker Lake Contracting (N)	4,600
Crane & Labour	
Sigyamiut (N)	31,915
Wharf Construction	
Arctic Scuba & Marine (n)	1,900
Wharf Construction	
S&K Construction (n)	5,000
Supervision - Steel Assembly Pinwall	
Armtec Inc. (S)	3,000
Wharf Construction	
S&K Construction (n)	12,000

CHESTERFIELD INLET

Quarrying for Wharf	
Northern Piling & Foundation (N)	80,325
Land Development	
Hamlet of Chesterfield Inlet (N)	29,160
Wharf Access Road	
Hamlet of Chesterfield Inlet (N)	90,781

CHURCHILL

As & When Maintenance	
W.B. Dean (S)	5,746

CORAL HARBOUR

Design/Build Recreation Complex	
Baker Lake Contracting (N)	1,150,000
Paint School Exterior	
Baker Lake Contracting (N)	54,000
School Fence	
Baker Lake Contracting (N)	6,000
Electrical Service For New Arena	
NCPC (N)	23,949
New Roof - House #8	
Sanajiit (N)	9,750
Paint Lines on Gym Floor	
Kudlik Construction (N)	3,119
Land Development	
Coral Harbour Gravel Haul (n)	67,870

RANKIN INLET

Janitorial Services	
Pissuk Cleaners (N)	16,120
Ancroft Siding	
Baker Lake Contracting (N)	10,600
Service Hook-up	
Inukshuk Shop (N)	9,544
Paint School Exterior	
JP&H Enterprises (N)	23,241

NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Vehicle Maintenance	
Keewatin Automotive (N)	99,583
As & When Electrical	
Keewatin Building Systems (N)	17,400
As & When Electrical	
Kudlik (N)	36,874
Polar Bear Cave Building Alterations	
Kudlik (N)	20,300
Oil Burner Maintenance	
Sanajiit (N)	86,408
Paint Staff Houses	
Sanajiit (N)	64,300
Siniktarvik Alterations	
Sanajiit (N)	28,570
As & When Carpentry	
Sanajiit (N)	31,688
Repair Vehicle	
Yellowknife Motors (N)	4,434
Water, Sewer, Site Grading	
Volker-Stevin Contracting (n)	1,348,100
Install Air Lines - Nippisar	
Arctic Scuba Diving (n)	11,000
Monitor Systems - Group Home	
Aurora Northern Contractors (S)	4,000
Air Conditioning System Repairs	
Fleming Pedlar (S)	5,000
Dust Control Program	
Hamlet of Rankin Inlet (N)	20,910
Drainage Improvements	
Y & C Enterprises (N)	65,638

REPULSE BAY

New Primary School	
PCL Constructors Northern (N)	2,584,750
Supply Survey Assistants	
Hamlet of Repluse Bay (N)	1,005
Water Lake Road	
Hamlet of Repulse Bay (N)	79,500

WHALE COVE

Hamlet Office Renovations	
Baker Lake Contracting (N)	64,238
Renovations - House #5	
Baker Lake Contracting (N)	81,100
Adult Education Centre	
Kudlik (N)	48,788
Install Flush Toilets/Raise & Level House	
Kudlik (N)	28,500
Paint Tank Farm	
RAE Inspections (S)	2,360
Land Development	
Hamlet of Whale Cove (N)	17,400
Purchase & Install Gabion Mat	
Hamlet of Whale Cove (N)	23,700

WINNIPEG

Electrical Maintenance - Transient Centre	
AAA Electric (S)	1,850
Interior Painting - Transient Centre	
Excel Painting (S)	4,500
Carpentry Repairs - Transient Centre	
Wolseley Woodworking (S)	2,350

KITIKMEOT REGION

Location - Project **General Contractor[1]**	**Amount ($)**
VARIOUS	
Crushed Granular Product-Spence/Gjoa Haven	
Robinson's Trucking (N)	409,956
CAMBRIDGE BAY	
Office Renovations	
Enokhok Development Corp. (N)	30,000
Cold Porches - Winchester Arms	
Fred H. Ross & Associates (N)	7,600
Renovations to Staff Housing	
Ningmac Holdings (N)	69,500
Demolition - Old Group Home	
Ningmac Holdings (N)	22,000
Municipal Services	
Hamlet of Cambridge Bay (N)	415,012
Vehicle Servicing	
Fred H. Ross & Associates (N)	47,569
Renovations to Education Building	
Fred H. Ross & Associates (N)	101,500
Construct Park Equipment	
Fred H. Ross & Associates (N)	2,000
Re-roofing: Bayview & Winchester Arms	
Unico/Bond-A-Ply Roofing (N)	235,400
Community Hall	
Fred H. Ross & Associates (N)	784,580
Vehicle Rental	
Igloo Enterprises (N)	3,000
Survey Assistants	
Hamlet of Cambridge Bay (N)	3,500
Crushed Granular Product	
Fred H. Ross & Associates (N)	121,928
COPPERMINE	
Municipal Services	
Hamlet of Coppermine (N)	158,839
Fuel Storage Facility Painting	
Polar Painting (N)	38,650
Interpretive Display	
Coppermine General Maint. (N)	4,250
Insulated Water Truckfill Arm	
Coppermine General Maint. (N)	9,550
Boiler Replacement - Coppermine School	
Coppermine General Maint. (N)	29,250

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

House Retrofit - Foundation	
Coppermine General Maint. (N)	54,389
Water Intake	
Northern Arctic Divers (N)	29,642
Vehicle Servicing	
Hamlet of Coppermine (N)	6,746
Boiler Start-Up-Coppermine School	
H.F. Clarke (S)	6,104
Boiler Repairs - Coppermine School	
H.F. Clarke (S)	3,615
Ditching & Erosion Repairs	
Arctic Coast Enterprises (N)	17,912
Supply Survey Assistants	
Hamlet of Coppermine (N)	2,260
Vehicle Rental	
Arctic Coast Enterprises (N)	1,500
Vehicle Rental	
Arctic Coast Enterprises (N)	3,180
Garbage Dump Restoration	
Arctic Coast Enterprises (N)	5,900
Rental of D6 Bulldozer	
Arctic Coast Enterprises (N)	6,000
Access Road to Solid Waste Site	
Arctic Coast Enterprises (N)	198,099

GJOA HAVEN

Extend Catwalks - Tank Farm	
Back Bay Welding (N)	32,622
Muncipal Services	
Hamlet of Gjoa Haven (N)	136,908
Vehicle Servicing	
Hamlet of Gjoa Haven (N)	5,404
Construct Park Equipment	
Hamlet of Gjoa Haven (N)	3,348
Information Posters	
Inkit Graphics (N)	3,076
Information Brochure	
Outcrop (N)	7,144
Traditional Items	
Nuliayuk Ladies Group (N)	2,810
Renewable Resources Office/Warehouse	
Treeline Construction (N)	227,700
Bulk Fuel Storage Dispenser Building	
Back Bay Welding (N)	55,816
NW Passage Historic Park Consultant Display	
PRP Parks Rsrch. & Planning (S)	47,500
Dust Control Program	
Hamlet of Gjoa Haven (N)	18,000
Survey Assistants	
Hamlet of Gjoa Haven (N)	1,380
Land Development	
Hamlet of Gjoa Haven (N)	85,538
Road Development	
Hamlet of Gjoa Haven (N)	11,378
Access Road - Fuel Dispenser Building	
Hamlet of Gjoa Haven (N)	17,263

HOLMAN

Municipal Services	
Hamlet of Holman (N)	7,281
Design/Build Hamlet Offices	
PCL Constructors Northern (N)	689,000
Supply & Install Wall Tapestry	
Holman Eskimo Co-op (N)	5,000
Relocation of Electrical Services	
Northern Canada Power Com. (N)	12,160

PELLY BAY

Municipal Services	
Hamlet of Pelly Bay (N)	52,002
Water Supply Improvements	
Nortuk Contracting (S)	465,000
Supply Survey Assistants	
Hamlet of Pelly Bay (N)	2,940
Access Road to Water Supply	
Hamlet of Pelly Bay (N)	105,475

SPENCE BAY

Municipal Services	
Hamlet of Spence Bay (N)	201,378
Construct Parks Equipment	
Hamlet of Spence Bay (N)	2,762
Electrical Work - Office Addition/Renovation	
Erich Deutshman (N)	1,066
Insulation & Siding Retrofit	
North-Tech Construction (S)	55,700
Office Addition/Renovation	
North-Tech Construction (S)	143,279
Develop 12 Lots	
Municipality of Spence Bay (N)	28,066
Road Development	
Municipality of Spence Bay (N)	19,976
Vehicle Rental	
D.J. Sales & Rentals (n)	1,200

[1]NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

APPENDIX B

ARCHITECTURAL AND ENGINEERING CONTRACTS

HEADQUARTERS

Location - Project General Contractor[1]	Amount ($)
YELLOWKNIFE	
Long, Reid, Prelude Lakes Parks Ferguson Simek Clark (N)	10,000
Bunkhouse Repairs Ferguson Simek Clark (N)	1,500
Akaitcho Hall Rec Room Renovations Park & Associates (N)	40,000
Young Offenders Maximum Secure Facility Barr Ryder (N)	162,000
Old Stanton Hospital Disposal/Reuse Ferguson Simek Clark (N)	41,000
Capital Needs Assessment for GNWT Reid Crowther (N)	300,000
Drafting Services Ferguson Simek Clark (N)	3,600
Municipal Services Dev Plan for Votcha, USSR Reinders Northern (N)	2,350
Office Renovations - 6th Floor Courthouse Eldred Barr (N)	47,874
Office Renovations - 7th Floor Scotia Centre Esprit Interiors (N)	2,422
Office Renovations - 4th Floor Scotia Centre Esprit Interiors (N)	2,366
Territorial Treatment/Assessment Centre Ferguson Simek Clark (N)	19,143
Kitikmeot Out - Patient Centre Newform Consulting (N)	8,010
SJFHS Administration Area Park & Associates (N)	8,106
Office Renovations - Precambrian 5/6 Park & Associates (N)	8,027
PWNHC Landscape Design Ross & Borowiecka (N)	1,101
Office Renovations - 2nd Floor Courthouse Ussner Yakelaya (N)	4,410
As & When Electrical Engineering Ferguson Simek Clark (N)	9,267
Software Development Rangifer Systems (N)	4,000
Labour Survey Barnett Treharne Yates (S)	10,000
Technologists for Drill Supervision Geocon (N)	1,915
Material Testing Geocon (N)	25,000

FORT SMITH REGION

Location - Project General Contractor[1]	Amount ($)
VARIOUS FORT SMITH	
As & When Survey Services Underhill Engineering (N)	10,000
Pavement Rehabilitation Ferguson Simek Clark (N)	200,000
Scale Operators & Gravel Checking Underhill Engineering (N)	100,000
Slope Stability Study Geocon (N)	3,540
Provision of Survey Assistants Underhill Engineering (N)	25,000
Weigh Scale Operation Checks Ferguson Simek Clark (N)	23,000
Granular Base Repairs/Resurfacing Thurber Consultants (N)	60,000
Survey Assistants Underhill Engineering (N)	2,000
Grade Repairs Geocon (N)	16,800
Airphoto Interpretations Renwick Engineering (N)	24,600
Naval Architecture/Engineering Services SHM Marine International (S)	18,149
DETTAH	
Relocate Portable Classroom Park & Associates (N)	40,000
EDZO	
Living Quarters - Fire Obser./Lookout Tower Ferguson Simek Clark (N)	9,400
Water, Sewer & Site Grading/Expansion Reid Crowther (N)	58,300
ENTERPRISE	
Sewage & Solid Waste Improvements Stanley Associates (N)	8,000
FORT LIARD	
Water Well Facility UMA Engineering (N)	143,700
Monitor Test Pile Installation Hoggan Geotechnical (S)	2,875
FORT PROVIDENCE	
Hamlet Office Park & Associates (N)	60,000
Office Renovations - Renewable Resources Ferguson Simek Clark (N)	9,850
Geotech Investigation - Proposed Hamlet Offices Hardy BBT (n)	10,000

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

FORT RESOLUTION

Base Relocation	
Ferguson Simek Clark (N)	1,500
Geotech Investigation	
Thurber Consultants (N)	10,000
Rec Complex	
Barr Ryder (N)	88,000
Fire Operations Base Relocation	
Ferguson Simek Clark (N)	44,000

FORT SIMPSON

New Heliport	
Ferguson Simek Clark (N)	5,525
New Air Tanker Base	
Ferguson Simek Clark (N)	39,870
Walk-in Freezer	
Ferguson Simek Clark (N)	1,500
School Roof Retrofits	
Ferguson Simek Clark (N)	12,000

FORT SMITH

Applied Science Library Thebacha College	
Eldred Barr (N)	375,000
Geotech Investigation	
Thurber Consultants (N)	7,500
Trailcross & River Ridge Renovations	
HRC Engineering (N)	8,858
Arch./Eng. for Various Firehalls/Garages	
Barr Ryder (N)	103,350

HAY RIVER

Air Tanker Base Asphalt Paving/Upgrading	
Ferguson Simek Clark (N)	11,000
Renovations/Expansion - SMCC	
Barr Ryder (N)	135,000
Geotech Evaluation - P.A. School Addition	
Hardy BBT (n)	15,000
Drafting Services	
Renwick Engineering (N)	5,000
As & When Drafting Services	
Underhill Engineering (N)	1,000
Radio Communications Consultant	
N.N. Engineering (S)	35,000

LAC LA MARTRE

Fuel Storage Facility	
UMA Engineering (N)	55,000

NAHANNI BUTTE

Com Tap House Facility	
Stanley Associates (N)	48,000

PINE POINT

Disposal of GNWT Assets	
HRC Engineering (N)	30,000
Provide Instrument Person & Survey Helper	
Underhill Engineering (N)	25,000

SNARE LAKE

Engineering Terrain Analysis	
Geocon (N)	12,000
Geotechnical Services	
Geocon (N)	12,299

SNOWDRIFT

Community Offices	
Gino Pin Architects (N)	60,000

WRIGLEY

Community Gym/Office	
Barr Ryder (N)	80,000

INUVIK REGION

Location - Project General Contractor[1]	Amount ($)

VARIOUS INUVIK

Airphoto Interpretations	
Renwick Engineering (N)	11,000

AKLAVIK

Arena	
Eldred Barr (N)	37,973
Arena	
Geocon (N)	6,590

ARCTIC RED RIVER

Firehall	
Reid Crowther (N)	24,104
T'So Lake Intake Pumphouse Facilities	
Reid Crowther (N)	18,018
Dempster Highway Lookout	
Anuri Architects (N)	2,500
Firehall	
Reid Crowther (N)	17,212
Fuel Storage Facility	
Stanley & Associates (N)	24,975

COLVILLE LAKE

Engineering Terrain Analysis	
Geocon (N)	14,000

FORT FRANKLIN

Fuel Storage Facility Expansion	
Reid Crowther (N)	20,000

FORT GOOD HOPE

School Roof Retrofits	
Barr Ryder (N)	8,345

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Rec Complex	
Barr Ryder (N)	32,000
Fort McPherson	
Arena	
Eldred Barr (N)	37,147
Arena	
Geocon (N)	9,938
FORT NORMAN	
Geotechnical Investigation - Rec Complex	
Thurber Consultants (N)	13,000
INUVIK	
Chuk Park Lookout	
Anuri Architects (N)	2,500
Chuk Park Landscaping	
Ross & Borowiecka (N)	1,047
Senior Citizens Care Facility	
Anuri Architects (N)	11,800
Roof Retrofits - Various	
Pin Matthews Architects (N)	60,240
NORMAN WELLS	
Bunkhouse/Air Tanker Base/Heliport	
Ferguson Simek Clark (N)	81,650
PAULATUK	
Garage Structural Investigation	
Geocon (N)	4,012
School	
Ferguson Simek Clark (N)	105,000
Airphoto Interpretations	
Geocon (N)	3,500
SACHS HARBOUR	
Arena	
Eldred Barr (N)	32,560
TUKTOYAKTUK	
School	
Thurber Consultants (N)	20,000

BAFFIN REGION

Location - Project General Contractor[1]	Amount ($)
BROUGHTON ISLAND	
On-site Inspection - Fuel Storage	
Mondry Del Zotto (S)	62,105
School	
Hardy BBT (n)	20,000
CAPE DORSET	
Construction Supervision - Rec Complex	
E.E. Lach (S)	59,261
GRISE FIORD	
Energy Awareness Incentive Program	
Burdett Moulton (N)	53,143
School	
Ferguson Simek Clark (N)	150,000
HALL BEACH	
Community Hall Construction Supervision	
Burdett Moulton (N)	39,884
Community Hall	
Burdett Moulton (N)	37,000
IQALUIT	
Water & Sewage Improvements	
Oliver Mangione McCalla (N)	41,800
B.T.U. Meters	
Cheriton Engineering (N)	24,500
Baffin Interpretive Centre Electrical Upgrade	
Burdett Moulton (N)	216,242
Federal Building Electrical Upgrade	
Cheriton Engineering (N)	120,645
Federal Building Mezzanine Study	
Reinders Northern (N)	38,430
Arctic College Utilities - Const. Supervision	
Oliver Mangione McCalla (N)	24,000
School	
Ferguson Simek Clark (N)	450,000
Geotechnical Study for School	
Thurber Consultants (N)	20,000
LAKE HARBOUR	
Parking Garage Design	
F.S.C. Nunavut (N)	22,560
School/Gym	
Barr Ryder (N)	152,500
PANGNIRTUNG	
Community Hall Design	
F.S.C. Nunavut (N)	21,597

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Firehall Design
F.S.C. Nunavut (N) 39,400
New School
Ferguson Simek Clark (N) 200,000
Topographical Study for School
Reinders Northern (N) 3,500
Fuel Storage Facility Expansion
Stanley Associates (N) 378,000
Reservoir Engineering
Reinders Northern (N) 76,000

POND INLET
Water Supply Design
Reid Crowther (N) 80,000
Water Supply Improvements
Reid Crowther (N) 344,720
Fuel Storage Facility Expansion
Reid Crowther (N) 354,000

RESOLUTE BAY
Community Gym/Hamlet Offices
Burdett Moulton (N) 195,000

SANIKILUAQ
Garage Design
F.S.C. Nunavut (N) 14,811

KEEWATIN REGION

Location - Project
General Contractor[1] **Amount ($)**

Arviat
School Renovations
Ferguson Simek Clark (N) 120,000
Arena
Park & Associates (N) 4,500

BAKER LAKE
Geotechnical Study
ID Engineering (S) 6,900
Bulk Fuel Storage Facility
ID Engineering (S) 41,500

CHESTERFIELD INLET
Water Supply Improvements
UMA Engineering (N) 37,800

CORAL HARBOUR
Fuel Storage Facility Expansion
Stanley Associates (N) 437,000
Recreation Complex
Gordon Mangold Hamilton (S) 21,565

RANKIN INLET
Office Spatial Analysis
Eldred Barr (N) 28,818
Site Visits - Arena/Community Hall
John Murray Architects (N) 16,000
Bulk Fuel Storage Facility
ID Engineering (S) 35,000
Airport Dispenser Facility
Mondry Del Zotto (S) 25,000

REPULSE BAY
New School
Ferguson Simek Clark (N) 194,500
Geotechnical Evaluation
Thurber Consultants (N) 21,000
Bulk Fuel Storage Facility
ID Engineering (S) 15,000

KITIKMEOT REGION

Location - Project
General Contractor[1] **Amount ($)**

CAMBRIDGE BAY
Roof Retrofits
Barr Ryder (N) 39,750
Construction Supervision Community Hall
Allistair Cockburn Architect (S) 25,000

HOLMAN
Construction Supervision - Hamlet Offices
Ferguson Simek Clark (N) 20,000

SPENCE BAY
Airport Dispenser Facility
Stanley Associates (N) 25,000

[1]**NOTE:** (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business

Appendix C

LEASES AWARDED 1987/88

Community - Description Lessor[1]	Monthly Rent ($)
ARCTIC BAY	
Residential	
Ken Harper (N)	1,775
CAPE DORSET	
Residential	
Island Equipment Ltd. (N)	3,100
CHESTERFIELD INLET	
Residential	
Simeonie Sammurtok (N)	800
FORT SIMPSON	
Residential	
W. H. Developments Ltd. (N)	1,000
Residential	
William Mawdslay (N)	900
HAY RIVER	
Office space	
Jameson Holdings Ltd. (N)	5,012
IQALUIT	
Residential	
Tower Arctic (1961) Ltd. (N)	6,078
Residential	
Arctic Resources Ltd. (N)	2,025
Residential	
Northern Futures Ltd. (N)	3,010
Residential	
Grinnell Properties Ltd. (N)	11,950
Residential	
Northern Safety Services Ltd. (N)	5,000
Residential	
Baffin Kamulauyait Ltd. (N)	2,300
LAKE HARBOUR	
Residential	
Tom Webster/Jacques Belleau (N)	2,400
NORMAN WELLS	
Office space	
360439 Alberta Ltd. (S)	4,372
YELLOWKNIFE	
Office space	
NWT Community Services Corp. (N)	35, 14
Office space	
Go Ga Cho Enterprises (N)	5,648
Office space	
Go Ga Cho Enterprises (N)	3,623
Office space	
Polar Pandas Developments Ltd.(N)	10,985
Out - Patient Home	
Enokhok Development Corp. (N)	20,307

[1]NOTE: (N) - Indicates a registered northern business (n) - Indicates a non-registered northern business
(S) - Indicates a business that does not qualify as a northern business